FOGHORN

THE OFFICIAL MONTHLY PUBLICATION OF THE FIRST OSBORNE GROUP **FOG**

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The First Osborne Group (**FOG**) has been formed as a users' group for all persons who use or are interested in portable computers. Membership is available to any interested party whether or not they currently own a computer. The ***FOGHORN*** is published monthly by the First Osborne Group for its members. A subscription providing bulk mail delivery to an address in the U.S. is included with membership in FOG for $24.00 per year. See chart below for the additional postage required for other locations. Address all inquiries to FOG, P. O. Box 3474, Daly City, CA, 94015-0474. The Voice Phone is (415) 755-4140.

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FOG Membership Information Updates

Submissions for the *FOGHORN*

Submissions from members and others for the ***FOGHORN*** are hereby solicited. The editor requests that all such submissions adhere to the following guidelines:

1. All written material submitted for publication in ***FOGHORN*** should be WordStar compatible with NO print commands.
2. Avoid word hyphenation (hyphen help OFF), hard carriage returns and don't bother with Right Justification of text or blank lines between paragraphs.
3. Format your submissions to 70 columns or less; 65 is ideal.
4. Use the WordStar default tabs for indentation (i.e. 6, 11, 16, 21, etc.).
5. Put the filename at the very top of the first page and be sure that the filename does **NOT** include the words FOG or ***FOGHORN***. We suggest using the initials of your first and last name plus the date (for example GR030685.FOG).
6. And, oh yes, don't forget the name of the author.

The submissions can be sent on diskette by mail (to FOG, P. O. Box 3474, Daly City, CA, 94015) or uploaded to to FOG RCP/M #6 at (415) 755-8315. This is a special system which allows no downloading and is intended ONLY for submissions to this publication or to the disk library. No advance registration is required in order to upload to this system. If you send your contribution on disc and specify the disc you would like, we will overwrite your disc with one from the library.

* * * * * * *

Submissions to the Disk Library

As with the ***FOGHORN***, the disk library exists because of submissions from FOG members. If you have a program which you think would be of interest to other members, please consider submitting it for inclusion in the library.

Submissions to the FOG disk library should contain a copyright notice. This notice should contain the name(s) of the authors and a statement permitting the inclusion in the FOG library. This notice should also reserve all commercial rights for the author.

If you are submitting a program written by another, be sure to submit the program under the filename designated by the programmer. Remember, the program will not be added to the Disk Library until is has accompanying documentation.

The submissions can be sent on diskette by mail (to FOG, P. O. Box 3474, Daly City, CA, 94015) or uploaded to to FOG RCP/M #6 at (415) 755-8315. This is a special system which allows no downloading and is intended ONLY for submissions to this publication or to the disk library. No advance registration is required in order to upload to this system. If you send your contribution on disc and specify the disc you would like, we will overwrite your disc with one from the library.

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New First Class Postage Rates

The following is a list of additional charges which must be included with new or renewal memberships effective 3/1/85:

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Out of North America preferring surface mail — delivery not guaranteed ..... ADD...$ 6.00

* * * * * * *

Please help

It is essential that you include your account-membership number in all correspondence. ***Omitting your membership number will needlessly delay shipment of your order.*** It is **not** necessary to write a separate check for each different order. Consolidating your requests and sending only one check will save the staff considerable time.

* * * * * * *

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FROM THE FOG

This-n-That

by Frank Morton

If everything goes well you should have this in your hands about the time of the West Coast Computer Faire. So, on behalf of FOG let me welcome those of you who can join us at the 10th West Coast Computer Faire. It is going to be different this year; in several ways! First of all the location has changed (of course if you are at the Faire you already know that).

This year the location of the Faire is at the San Francisco Moscone Center, the site of the 1984 Democratic Convention. It is located south of Market Street between Third and Fourth Streets. The structure was created by carving a big hole in the ground and then putting a single arch supported roof over it. Although it is quite large, I suspect it may not be larger than the former site of Brooks Hall and the Civic Auditorium combined. I believe the 3rd Faire was held in San Jose, but has been at Brooks Hall and Civic Auditorium the other eight years.

The dates of the Faire this year are March 30th through April 2nd, which is Sat. through Tues. As far as I know it has always ended on a Sunday before, starting on a Thurs. or Fri. It will be very interesting to see what affect this change in dates will have on the attendance.

The location of the FOG Booth is unknown at the time of this writing. There will be a special User Group area at the Faire, but we prefer not to get lost in that section. Instead, we hope to share a booth with one of our many friends who are exhibiting on the main floor. We have received a generous offer to occupy space in one corner of the Osborne area again this year and are considering that as well as other possibilities.

As noted in your Ballot information, the FOG Annual Meeting will be held on the evening of March 30th at the world famous Sheraton-Palace Hotel located at Market and New Montgomery Streets (just a few blocks from the Faire). The meeting starts at 7:30 p.m. After the business meeting, we will welcome as our Guest Speaker the equally world famous Dr. Bill Godbout of CompuPro computer fame.

In case it may have missed your attention, Bill donated to the FOG office the $8000 plus CompuPro 10 computer system, without which we would be hopelessly lost by now. In fact it was at the last Faire that I hand delivered my letter requesting his valuable experience in assisting us to determine what multi-user system would be suitable for our needs. As you know from our reports here, it has been a very effective and useful tool in handling our rapidly expanding membership needs and services. In fact Gale likes it so well she says she would love to have an additional one. I cannot believe the power that is packed in that small container with its electronics for four separate users and its 40 MegaByte Hard Disk. It has really streamlined and improved the operations around the office!

Speaking of our Election meeting — YOU HAVE VOTED, haven't you!?! If so, thank you very much! We appreciate your participation. If not, you have let us down in the one voluntary act we ask of all members. I suppose we could make voting a condition of membership, but that would not be truly democratic even if we do feel that strongly about members voting.

As I mentioned in the last issue, we continue to solicit more FEEDBACK. — What is your opinion about a change of name (NOT the FOG acronym) as suggested by Gale's questioning article on page 7 of the February ***FOGHORN***? Other possibilities might be; First Omnipotent Group; or First & Only Group. — What more can we do to get Non-Osborne owners involved in the organization? We appreciate your present involvement, but would you KayPro, Morrow, etc. users help us to serve you better by writing to your respective manufacturers and telling them that you would like for them to work with us more. We have had difficulty attracting their attention and cooperation. Try to convince them that by helping us to serve you, they will be helping themselves in customer support as well. — What do you think of the election comment by Alan Chattaway plus my comment in the last issue regarding the subject of MS-DOS coverage? Do many of you use or anticipate using machines with this operating system as well as your CP/M machines? It seems a logical need to me, but we require feedback on whether or not that is desired by you the membership. We also need lead time to bone up on the subject if that is your desire. — We know that many of you cannot afford to volunteer effort either at the FOG headquarters or on the local level, but it does not take much effort to at least make your views and desires known to us. So take a few minutes and send us a line to let us know what your thinking is on these or other matters that are important to you members.

Finally, our thanks to the great numbers of you who have donated money beyond your required dues to help support the FOG RBBS/RCP/Ms. Your gifts are much appreciated. As you can see this service is expanding. We are dependent on more volunteers to man more Boards in order to have a network of them to support all the FOG members wherever they may be. There is a fair amount of work involved, but it is very rewarding both educationally and in positive response plus appreciation from the Board users.

You have heard me mention the PRACSA (Public Remote Access Computer System Association) which we support. That organization has a membership status for interested parties who are not SYSOPs (System Operators). You could help support the organization by joining, even if you have no intentions of operating a Board. Gale is Secretary of the organization. So if you might be interested in supporting this group by becoming a supporting member, contact the FOG office for more information.

Thanks for listening and THANKS FOR VOTING! . . . Frank

* * * * * * *

THIS IS THE COMPUTER WE WERE GOING TO INTRODUCE BEFORE YOU-KNOW-WHAT HAPPENED. ONE YEAR LATER, IT'S STILL AHEAD OF ITS TIME.

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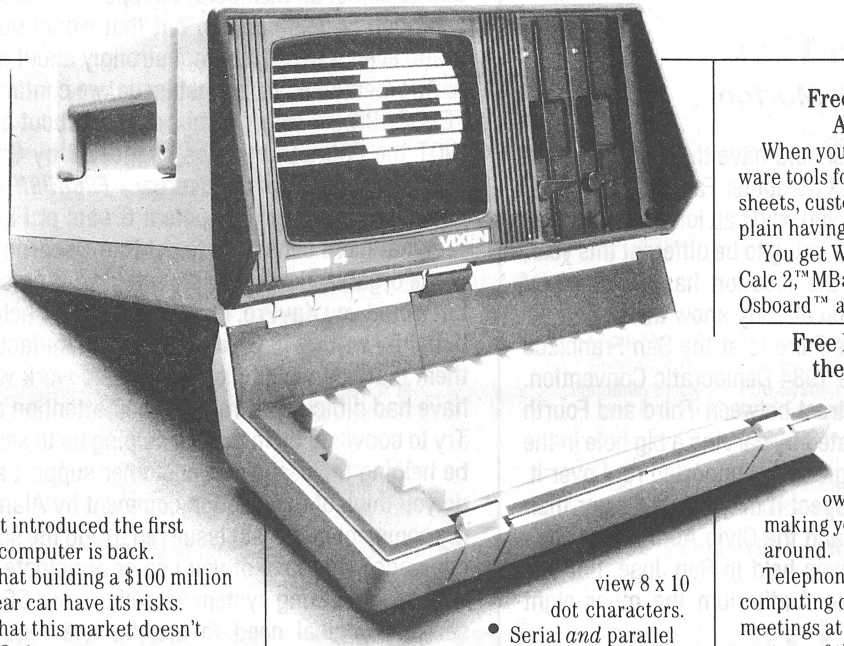

The company that introduced the first portable business computer is back.

We've learned that building a $100 million corporation in a year can have its risks.

We've learned that this market doesn't need another IBM® clone.

And with all today's talk about windowing, 16- and 32-bit systems, we've noticed that the all time best-selling microcomputers are still the 8-bit Apple®s. They invite you to compare. So do we.

Like Apple, the Osborne computing concept has served certain people very, very well.

So well that over 100,000 of you have bought Osborne computers.

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This is Vixen. The essence of the Osborne concept. Yet improved in every respect.

We took the best features of existing Osbornes and put them in a smaller case. With a bigger screen. 80-column display. And even faster response time. Result: The most powerful portable in its class. The Vixen is a fraction of the size of other Osbornes—yet it's *packed* with features lap-sized computers make you sacrifice.

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Look what Osborne gives you now:

- Two double-sided, double-density, half-height *400K* disk drives let you store up to *100* typed pages per disk.
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- CP/M® operating system, for access to the huge library of CP/M productivity software.
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All in one neat little package that is smaller than an IBM Selectric typewriter—and about half the weight!

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Take it away.

The Vixen is data-disk compatible with IBM PCs—and more.

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Your computing capabilities just expanded 200 times over.

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Telephone experts for answers to your computing questions. You can attend group meetings at over 300 locations. And take advantage of thousands of public domain software packages in FOG's ever-expanding library.

Fellow FOG members are a terrific source for tips on getting more from your Osborne. Thinking of buying a new program? Check its track record with FOG members who already use the package before you invest.

Here it is: Portable, powerful, reliable and data-compatible.

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OSBORNE

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Why Didn't You Renew?

by Gale Rhoades

Each member, about three months before their FOG membership expires, receives a renewal notice. Notices are sent out this early so that each member has an opportunity to renew without missing an issue of the***FOGHORN***. If we have not received a renewal payment by the time the last ***FOGHORN*** is sent, we send out what we refer to as "why not" notices. This notice reminds the member that their membership has lapsed and that they will not receive any more ***FOGHORN*** s unless they pay their dues. The "why not" form also requests that they take a moment to tell us why they are not renewing.

Recently, I received a very distressing answer to this request. The member joined in late January, 1984 and received his first ***FOGHORN*** in February, 1984 (giving him an expiration date of 01/85). Without identifying this member, I am going to quote from part of his letter.

I am not going to renew my subscription to FOG. It didn't work for me. It was full of helpful hints which I could not use because there wasn't enough information. One would have to know something about assembly language to use them. For me, I would need a step-by-step description of what to do in order to create patches such as were described by various authors.

I badly wanted to find out how one could write a program in BASIC on WordStar and then transfer it over to BASIC. It sounds simple, but I have never managed to do it and nobody described it in the detail I needed to make it work.

The areas I'm most comfortable with are BASIC programming and WordStar. I could have used patches to make WordStar faster to call up and they were described in [the ***FOGHORN****], but I felt frustrated because I could not follow and understand what was said.*

No doubt the newsletter is very useful to a great many people, but it wasn't useful to me.

That sounds like me!

If this member reminds you of yourself, I would like to remind you of several suggestions made frequently in this publication, on the phone, and at local group meetings:

1. Order the back issues of the ***FOGHORN***. Many questions new users are raising have been answered in earlier issues and are not likely to be repeated.

2. Get involved with a local group. If you do not know what group is nearest you, send a note to the office with an EXACT description of where you are located. We will give you the contact information for the group nearest you, regardless of whether or not that group is affiliated with FOG.

Nothing can surpass the one-on-one relationships developed at these local group meetings for learning assistance. At most meetings, members are able to bring their computers, printers, etc. and find someone to walk them through the procedures. At other groups, classes are organized around the questions members raise.

If there is no group in your area, act as the contact to get a group started (see January, 1985 for more suggestions).

3. If you own a modem, learn to use it so you can use the FOG RCP/M network to ask for assistance. If there is not a FOG system in your area and you would prefer to keep the phone bill in control, try any remote system in your area. Most users of remote systems are willing to help other users.

4. Write a letter to the ***FOGHORN***. All incoming questions are reviewed by the FOG office staff and many receive a personal response. As the Technical Support department becomes better organized (we have to move first so that there is sufficient space), the response time will decrease. Sometimes the answer involves referring the member to the appropriate issue of the ***FOGHORN***, sometimes it is a step-by-step guide, sometimes it must be printed in the ***FOGHORN*** because we do not yet have an answer.

5. Call the office at (415) 755-4140. Our hours are normally 10:00 a.m. to 6:00 p.m. (**California** time). If we are in the office in the evenings or on the weekends, we will ***occasionally*** answer the phones at other times. Generally though, the answering machine will answer. If you have a problem, leave the information as well as your name and address (**spelled out!**) so that we can send you whatever information is available. If you are willing to pay for a return COLLECT call, tell us that as well.

Admittedly, getting through to the office can be a bit difficult some days. On other days, the technical support staff may be busy and thus not able to give you an immediate answer. Also, the answer you receive will only be as good as the question is clear.

We aren't very good at answering questions about why won't the "gizmo" do this or why can't I make the "whatchamacallit" work; we have no way of knowing what "gizmo" you are referring to, we cannot see what is on your screen, we cannot see that the printer is jammed. Generally we find that we can best help those who call while they are sitting in front of the computer so that we can say do this and you can tell us what the response is.

I know the answer to that but . . .

If you know the answer to this question (see ***TIPS FOR TYROS*** later in this issue) but thought everyone else must also know the answer, I trust that this will serve to remind each member that there are all sorts of little tricks they have figured out and not shared with others.

The most desperately needed material for this publication is for the ***TIPS FOR TYROS*** section. In this section, more than any other, you will see the same solutions described in a variety of ways. This is because each person, when faced with learning a new skill, brings with him (or her) a background of skills.

A secretary will often find WordStar a breeze to learn. After all, retyping an entire letter each time gets very boring so the typing and formatting skills are a joy to transfer to a word processor. By the same token, an accountant will often find SuperCalc easier to learn because of the similarities to the work papers so much a part of his practice.

Those who spend much of their day reading reports, books, newspapers, etc., will find verbiage easier to understand. Those who work with their hands will find key-by-key directions easier to learn from.

If you know the answer but won't submit to the ***FOGHORN*** because it takes months to appear in print (and some submissions never make it), may I suggest that you are shortchanging yourself and the other members.

I agree, the four month or more delay it takes to see you name in print is depressing. It can be worse for those of us involved in the production of the ***FOGHORN***. After all, you are reading the April issue and we are typesetting and printing the June issue and David Oates is editing the July issue.

Consider though, the amount of material which goes into each issue. An eighty page issue usually involves typesetting about 400K (more than two full Osborne double density disks). David takes about a month (without any vacations, illness, or overtime at his regular job) to edit the material for each when the submitted material is properly prepared. For those submissions with hard carriage returns, spelling errors, no author's name, no organization, etc., more time is required.

Each item must then have the typesetting codes inserted (after we figure out what the author is trying to describe). For example, we replace each hard carriage return with the proper typesetting code. Bold face, italic, monospace, and the regular typeface each have a different code. We also have to translate tabs, backslashes, broken (vertical) lines, etc. for the typesetter.

After we spend the time to do this, someone needs to read the entire ***FOGHORN*** to find the characters that were lost in transmission (the typesetter does not use any error-checking when transferring the files from our disks to their computer) and prepare the corrections. Once the material is typeset, someone has to prepare it for the printer. The typesetting and paste-up process takes about three weeks for each issue.

The printer needs about ten days to print the issue, punch the holes and have it ready to pick up. The mailing service needs two to four days to get the labels on the issue and get it to the post office.

To do twelve issues a year, we need to do each issue in about four and a half weeks. We could do that if each issue was only about thirty pages or if we had additional staff. Having no desire to reduce the size of the ***FOGHORN***, we are concentrating on moving to larger quarters and training more people to do the production. We are also working (no, we seldom sleep) on a "writer's guide". In the meantime, patience and understanding are virtues we greatly appreciate. Specific suggestions, previously proofed contributions (have someone else read your article before submitting it), and software (Claude Ostyn's FILTER, Oasis Systems The Word Plus, MicroPro's WordStar, and Jim Ulrick's WYSE to name but a few) are the tools to get the ***FOGHORN*** out on schedule.

* * * * * * *

A Starter Disk for Members

by Gale Rhoades

In response to the large number of calls and letters this office has received from members who are having difficulty using files from the FOG Disk Library and the RCP/M systems, I have put together a Starter Disk. There will be no attempt to include this Starter Disk (or future versions of it) in the framework of the FOG Disk Library. All of the programs on the Starter Disk(s) have been submitted to or are already included in the FOG Disk Library.

What makes this Starter Disk unique is that the most current revisions of the programs most vital to users are combined onto a single disk. Because the programs (together with their documentation) will not fit on a single density disk and because the majority of members are able to read Osborne double density, this disk was prepared in double density. (See below for information about a single density version.)

When newer revisions of these programs are released or a new program appears which surpasses what is included on this disk, the disk will be changed. There will be no announcement of the change since the new programs will also be sent to the appropriate librarian (normally the Utility librarian) — We will just ship the new version to those who are ordering. No programs will be included on this disk which are not or will not be in the regular FOG Disk Library.

As with the disks from the FOG Disk Library, this disk is $5.00 if you are ordering less than ten disks. If you order ten or more disks, the price is $4.00 per disk. In either case, there is a $5.00 per order shipping and handling charge. Thus, if you order only this disk, the total cost will be $10.00. If you order this disk and nine disks from the Disk Library, the total cost for the order will be $45.00.

In recognition of the fact that there are still members who cannot read double density, I have found a way to put these same programs on two single density disks. In the descriptions which follow, I will list first the double density (one disk) version and then the single density (two disk) version. Remember that unless you specify otherwise, you will receive the double density version. The total cost for ordering both disks of the single density version alone would be $15.00 including the shipping and handling charge.

How to Start

As with all disks in the FOG Disk Library, this disk has what is called a "disk doc". On some of the early disks in the library, the description of the files on the disk was contained in a file called DISK.DOC. On the more recent releases, this information is contained in a file which reflects the disk number in the format of /sec#nnn.DOC. (*sec* refers to the library section, *nnn* reflects the disk number in that section. For example, the "disk doc" for FOG/UTL.052 (disk number 52 in the utility section) would be titled /UTL#052.DOC. Additional discussion of this organization can be found on FOG/LIB.001 or in the printed Library Directory ($5.00 including shipping).

On this disk, the "disk doc" is titled /STARTER.DOC. As with all "disk doc" files, this file may be printed with your word processing software. You should make a habit of printing the "disk doc" files immediately after obtaining a copy of a library disk since these file contain a summary of the files on the disk. Frequently there is also an "impatient user's guide" in this summary.

Double Density Starter Disk

The files on this disk are:

DE-LBR.COM — This program will extract all members of a .LBR file. You must first be sure that you have sufficient room on the disk.
DE-LBR.DOC — Documentation for DE-LBR.COM.
DU-V87.COM — This program enables disk restoration and modification. Experiment on a disk that does not matter to you before trying to restore a valuable disk.
DU-V87.DOC — Documentation for DU-V87.COM.
EDFILE.COM — This program allows editing of ANY file, either in HEX or ASCII. It's good for quick patches to WordStar or a similar program.
EDFILE.DOC — Documentation for EDFILE.COM.
FBAD57.COM — This program maps out bad sectors on a disk so that the disk can safely be used.
FBAD57.DOC — Documentation for FBAD57.COM.
NSWP207.COM — A universal file manipulator. ESSENTIAL for disk and file management. Every computer owner should learn to use this program immediately after learning to make backup copies of their disks.
NSWEEP.DOC — Documentation for NSWP207.COM.
NULU11.COM — Similar to NSWEEP in the way it works, this program allows creation of, extraction from, listing, etc for all .LBR files.
NULU11.DOC — Documentation for NULU11.COM.
UNERA+.COM — This program is a menu-driven utility to restore erased files. It will accept wildcards.
UNERA+.DOC — Documentation for UNERA+.COM.

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Single Density Starter Disk Number 1

The files on this disk are:

NSWP207.COM — A universal file manipulator. ESSENTIAL for disk and file management. Every computer owner should learn to use this program immediately after learning to make backup copies of their disks.
NSWEEP.DOC — Documentation for NSWP207.COM.
NULU11.COM — Similar to NSWEEP in the way it works, this program allows creation of, extraction from, etc. all .LBR files.
NULU11.DQC — Documentation for NULU11.COM. Note that this documentation is in a squeezed format. This reduces the amount of disk space required for the file but prevents printing the file until you have *unsqueezed* the file. NSWP207.COM (frequently renamed to NSWEEP.COM or NS.COM for ease of use) will unsqueeze the file to another disk. Refer to NSWEEP.DOC for details on how to do this.

If your order mentions that you have single density but are ordering only one Starter Disk without specifying which one you want, this is the disk you will receive. ⇨

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Single Density Starter Disk Number 2

The files on this disk are:

DE-LBR.COM — This program will extract all members of a .LBR file. You must first be sure that you have sufficient room on the disk.

DE-LBR.DOC — Documentation for DE-LBR.COM.

DU-V87.COM — This program enables disk restoration and modification. Experiment on a disk that does not matter to you before trying to restore a valuable disk.

DU-V87.DOC — Documentation for DU-V87.COM.

EDFILE.COM — This program allows editing of ANY file, either in HEX or ASCII. It's good for quick patches to WordStar or a similar program.

EDFILE.DOC — Documentation for EDFILE.COM.

FBAD57.COM — This program maps out bad sectors on a disk.

FBAD57.DOC — Documentation for FBAD57.COM.

UNERA+.COM — This program is a menu-driven utility to restore erased files.

UNERA+.DOC — Documentation for UNERA+.COM.

If you are practicing, try the programs on disks which are backup copies before attempting to use the programs on irreplaceable disks.

I hope that the Starter Disk will solve the problems some of the members have had. If you have any suggestions for future releases, please let me know. For those with modems, all of these files are in the NOVICES.FOG section of FOG RBBS-RCP/M systems #1 and #3. The programs used for the Starter Disk(s) are the generic versions. With the exception of UNERA+ and FBAD57, these should work on all the systems FOG supports. The two programs (UNERA+ and FBAD57) do not yet work under CP/M 3.0. If you encounter difficulties or obtain versions of these two programs which will work under CP/M+, please let me know.

A couple of days before this issue went to the printer, I received a letter suggesting that credit for the "Starter Disk" idea belonged to Chicago's First Osborne Group. If you belong to CFOG or one of the other groups which assembles a "Starter Disk" for their members, you can get very similar programs from these groups.

* * * * * * *

Looking for a Local Group?

For the name(s) of Affiliated Member Organization(s) or other group(s) nearest you, send a stamped, self-addressed envelope to:

First Osborne Group (FOG)
P. O. Box 3474
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* * * * * * *

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LETTERS

WordStar for the Brother Typewriter

This note was prompted by Harvey H. Scheviak's letter in the October, '84, ***FOGHORN***. I also have a Brother CE-50 with the IF-50 computer interface. I couldn't be more pleased with this setup for letter quality printing. The typewriter has its own keyboard so that it can be used on its own for notes or by someone who doesn't like computers (yet!). It is portable with a hard cover and built in handle, so it can go right along with my Osborne. It has a variety of interchangeable type wheels and the wheels and ribbons are available at discount stores everywhere. I've noticed that J. C. Penney's and Montgomery Wards are selling the typewriters and interfaces at good prices now. Wheels and ribbons are also available at places like Computerland because they are the same as the ones used by Comrex and Dynax printers.

Harvey noted that he couldn't backspace and overstrike. Well, I've been using mine with all those functions and more with WordStar, both 2.26 and 3.3. I want to pass along the setup I use.

Use INSTALL on a copy of WordStar that you want to modify. Answer the questions for "Any teletype-like printer, No communications protocol, CP/M list device". Then when INSTALL asks if modifications are complete answer "N".

Modify the following locations:

PSCRLF:	010D	This is because the Brother does auto LF
PSCR:	050D1B441B44	Does a CR and then 2 half line roll ups
PALT:	031B1F0B	Sets alternate to 12 pitch
PSTD:	031B1F0D	Sets standard to 10 pitch
ROLUP:	021B44	Roll up half line
ROLDOW:	021B55	Roll down half line
USR3:	021B45	Sets ^PE to start Brother underline
USR4:	021B52	Sets ^PR to stop Brother underline
PSINIT:	080D1B441B441B1F0D	Initializes Brother to 10 pitch, CR

These settings will let the Brother do overstrike, super and subscripts, printer underline, and 10 or 12 pitch.

John Harkin

* * * * * * *

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Dear *FOGHORN*

I purchased my Osborne 1 SD in September of 1982. I am the financial manager for a small but growing firm in New York City. My decision to invest in a microcomputer was not supported by my extremely frugal employers. The purchase was made on my own. I will never regret it. From the very second day I had my machine I have enjoyed it immensely. (On the first day my IBM labeled MX80 failed to operate until the next day when some twelve year old at Computerland figured out that the cable they originally gave me was unsuitable.)

I began the first day calculating the cost of an inventory with a crude BASIC program which I had written after only a college Intro. to Computers (without much exposure to computers). I can thank Osborne for putting together a wonderful software package. The weekend after I did the inventory work I was able to use SuperCalc to do all the schedules possibly needed for my firm's fiscal year end. Meanwhile, WordStar got me through my last semesters of night college, while my career took incredible turns for the better.

At first I only used DATABABY (the name I have given my OSBORNE) for my own information. But eventually I began to do so much work on the machine that almost anyone I dealt with had seen what DATABABY and I had produced — correspondence, schedules, a revised personnel policy, etc. To support my habit I began to do word processing for pay — resumes, term papers, etc.

Sorcim's offer of SuperCalc 2 was not only too good to refuse, but it was the first time I really got high from my computer. With their superb documentation, I was quickly able to develop templates for financial statements and then use various general ledger files to create endless budgets, comparisons etc. Now instead of spending a weekend with analysis paper and 99 trial balances, using the Execute function I'd let DATABABY print details and summaries of divisionalized and consolidated financial statements while I had dinner. Although I have not had time to submit the templates or document them well I would be glad to answer any inquiries by phone. ((201)438-6744)

With the help of ***FOGHORN*** I had my second "trip". In the very first issue I received, ***TIPS FOR TYROS*** described how to use BASIC to create a data file for use with WordStar's MailMerge. My interest in BASIC programing was sparked (it wasn't useful at all, the way they taught it in college). Subsequently I purchased ***DATAFILE PROGRAMMING IN BASIC, A Self Teaching Guide***, by LeRoy Finkel and Jerald R. Brown, from Wiley Publications in New York. New doors were opened. After producing mailing lists for a few friends I have begun to produce them for pay. All this for $24.00!

To answer Paul Pease's comments in the August '84, ***FOGHORN*** I use SuperCalc to sort my files. SUPER DATA INTERCHANGE (SDI) which came with Sorcims upgrade of SuperCalc 2, allows the user to convert Comma-Separated-Value (CSV) files, which are Data Files created in BASIC as well as in WordStar, to SuperCalc files and vice versa. (I also understand that database files can be similarly manipulated but I do not have a dBASE program.) Once a CSV file is converted into a SC file I use the Arrange (/A) function in SuperCalc to arrange any column I require. It will sort text alphabetically and numbers numerically. This groovy trick even came in useful for another purpose. I had a vendor whose bookkeepers were driving my payables person bananas. Constantly resubmitting invoices for payment even years after they were paid. We punched in every invoice # and check # where it was paid into two columns. Then we sorted the list by Invoice #. Not only can we immediately answer their requests with a check # but we even found a few duplicate payments and now they have quieted down. Even though the list was several files large, after sorting each file, invoices beginning with the same digit were saved in separate files and then each file resorted.

The ability to use all of the software interchangeably, as I had begun to learn, made me crave for more memory and more disk space. I have since ordered a Limited Edition Executive and can't wait until I can have DATABABY hammerout labels or word processing text while I perform other jobs on the Executive (unnamed until birth).

A while ago I purchased OSBOARD, OSGRAPH, and OSBRIEF from DG/Systems in Woodland Hills, California, but was unable to use them with the MX80. About three weeks ago I bought an FX100 and now the boss is really blown away. I haven't used it all that much, due to a busy schedule but I could comment that the documentation is well-written and the program is very user-friendly, after ten minutes or so I generated bar charts of revenues by quarter for all of the firm's licensees and then a pie chart of who contributed what.

Another recent purchase was an Oscool Fan from R & D research. I was used to extremely overworking my machine. It was used sometimes for 20 hours without a rest. I know this sounds ridiculous but knowing it was convection cooled I wrapped one of those blue-ice packs in a kitchen towel and placed it on top of the machine. (I'm almost embarrassed to admit this.) The fan is incredible. The other day I had DATABABY working for three and one half hours and placing one's hand on the top of the machine, one would not be able to tell that the machine had been turned on at all. In addition, it is extremely quiet.

One disappointment for me was my inability to find a convenient local user's group. I have not yet accessed the FOG library, perhaps I will soon order some disks through the mail (are files accessible with a modem?) [*They sure are. See the **FOG FONES**, this issue for phone numbers of FOG RCP/Ms*]. I had written for a list of local groups; the only one close was in Pompton Plains, New Jersey which was severely hurt by rain and I guess the group was abandoned because after several instances of being the only person to show up at the meeting place after being told there would be a meeting, I finally ceased calling up the contact given me by ***FOGHORN***. How does one start a user's group? Are there any Osborne owners in Bergen County, New Jersey who are interested?? My phone number is above somewhere.

When CTS offered a $99 price for the Compaq modem I purchased one although my use for it has been unfortunately little. I did not find the documentation as helpful as with other software experiences, however I was able to reach a cousin in

Chicago. Unfortunately we were unable to transfer files, only watch what was typed on the keyboard. (He had a TI, I think and I don't know what type of modem, but I think his storage is on tape and not disks if this has any effect.) I am still in the dark when it comes to using my modem. After reading this month's ***FOGHORN*** I am concerned with it's health since extreme heat has been named as a troublemaker and I have often "overheated" my machine and have always used the slot under drive A as the storage place for the modem. A detailed, step by step, article on modem use would be great. I would have loved to submit this letter by telephone. I am also anxious to try my modem to see if I have damaged it.

When I first started out and Osborne [Computer Corporation] went [into Chapter 11], I was often embarrassed by associates and computer salespersons when I would mention that I had an Osborne. Even Computerland wanted to forget they never heard the name Osborne. Once, while shopping for a printer, in the middle of a store a salesperson laughed at me and asked "what would anyone ever want with one of those?", as he transferred his attention to another customer. Now that Osborne is back how will the machines be distributed? When purchasing my FX100 the salesman was astonished that I was buying another new Osborne, "hadn't they gone belly up?" he asked. I have not seen any support other than from the FOG. I have always been a proud Osborne owner. I knew what I had. With the news of Osborne's recovery and the most excellent publication, ***FOGHORN***, I have enough confidence to stand up to the criticism from the PC'ers who spent fortunes for machines with no software and even more for the software. Often times I brag of things DATABABY can do that put the PC'ers to shame. Congratulations Osborne, ***FOGHORN*** and last but not least DATABABY.

Ann Cacciottoli
Lyndhurst, NJ

* * * * * * *

dBASE 2.41, dSORT, SuperCalc and Questions

Regarding Peter Gold's statements about dBASE 2.41 and dSORT in an earlier ***FOGHORN***. I also have found the 2.41 version a tremendous improvement over the 2.3b. There was also some problems with dSORT. I called Ashton Tate and they sent a patch that will eliminate the problems. I made the patch to my copies of dSORT and loaned the letter to another user without making a copy. To whom it was loaned is now a vague memory. But there is a fix available to those that ask.

SuperCalc can be a bit on the small side when it is restricted to 64K, as is the case with the O-1. Recently a piece of work that needed to be done for the company required use of a large number of formulas. Long formulas can quickly produce an "out of memory" situation. To get around this I found it necessary to break the spreadsheet into sections. The first section contained the titles, left column names, and the constants needed for all the cells. Placements of the constants is important in keeping the memory managed. If your spreadsheet is going to be longer than it is wide, then the constants should be along the bottom columns. If it is wider, then place them to the right of the formula cells.

The next step is to divide the entire project into manageable parts. For me it was best to divide into upper and lower halves. Thirds or quarters may be needed for larger ones. So now for one spreadsheet I have three files — one containing borders and constants, another for upper formulas, a third for lower formulas. But this is not all that is necessary to get the job done. Due to memory restrictions, I can only call in half of the work at a time for viewing or printing. For example I could call up the borders, then call in cells B1 through Y19, but if I tried to call in B20 through Y47, the result would be an "out of memory" message. The only way to get around this is to save each half of the work twice, once as formulas, then as values. Then all the values may be called in and memory will not be overflowed.

The way to do this last trick is to hit **/S**. This will tell SuperCalc you want to save a file. It will ask for a filename. We will answer **fileF1** first. It will then ask "All or Part", reply **P**. Then it will ask "All or Values", for the first time answer **A**, then you will be asked the range, enter the first part of the work, such as **B1:Y19**. This will save the formulas as well as their results. After this is done hit **/S** again. Title of the second part of the file will be **fileV1**, "All or Part", answer **P**. "All or Values", answer **V**, this will save only the results of the formulas, not the formulas themselves. (A real number takes less memory than a complex formula, so we are saving a smaller file, this is the secret to being able to see the entire file at once.) Next enter the range as B20:Y47, or whatever and you are through with the first section.

Next save the second section of the work using designations "fileF2" and "fileV2". Then you will know what part of the spreadsheet is where by knowing it's name. "fileF1" has formulas for the first part of the work, "fileF2" has the formulas for the second part. Those with V suffixes have only the value for their respective parts.

If you find that your spreadsheets are still limited after using this method, then you need a larger memory capacity, something on the order of the IBM AT. But you can't carry an AT around everywhere, can you?

Questions: Has anyone out there had any experience with A/D converters and the O-1? I need to read a transducer and two photoelectric cells simultaneously for periods of time that are measured in microseconds. Any help? Also, there is a program out for the Apple that makes it think it is an oscilloscope, anybody know about something like that for CP/M and Z-80? Also, which is the best way to get standard deviation readings, BASIC, SuperCalc, or others? If you answer other, please be specific. Any help about these matter can be addressed to:

Marty Liggins
Rt. 1, Box 167
McEwen, TN 37101

* * * * * * *

Public Domain and EXEC

I recently added a Hayes Smartmodem to my Osborne Executive, and I've been playing with many downloaded programs from various RCP/M boards. CP/M+ is apparently very different from earlier CP/M versions, and so many of the programs available will not work on the Exec. I thought that it would be helpful to others if I passed along my experiences with some of these programs, and perhaps others would do the same. I am not including any Exec programs from the FOG EXEC library, unless they don't work right, as these are obvious. If anyone has fixes for some of these non-EXEC programs I would appreciate hearing about them. Some of these programs are from CURA in Brooklyn, NY, some from SDI in Woodstock, NY, and some from Woodstock RCP/M. The first list is non-EXEC programs that work fine.

EDFILE -- Edits any file (COM, Doc, etc.) in HEX much easier than DDT or SID like a word processor-GREAT!, anyone can use it
LUXDIR -- Lists directory of a library file
LUXTYP -- types contents of a library member (text only)
LUXFND -- finds a file in a group of libraries
LBRDSK3 -- allows a LBR file to act as a separate DISK DRIVE
MENU -- creates a menu system with a text editor (utl#021)
AUTOSUB -- allows creating a COM file of a series of SUB programs-useful with menu, above.
WAIT -- pauses in a sub program & waits for response
SF -- Similar to TYPE but w/ forward + backward
KEYBOARD -- Allows redefinition of keyboard layout
LOOKUP -- LOVE IT. finds info from a ascii file (e.g. phone #)
OKMENU -- sets print parameters for OKI printers (also from R in WordStar-quick and easy)
EXECSCRN4 -- controls video attributes-faster than VIDEO.BAS
SUPRSUB2 -- an improved SUBMIT, multiple commands on line
EXAUTO -- to easily create an EXECST.COM
MEASURE -- converts common measurements (MBASIC)
FINANCE -- calculates interest etc. (MBASIC) there are two on FOG appl.
FIND40 -- finds a string in a file (wild cards for group of files
SORTV -- sorts an ascii file. can skip over part of record
SPLITTER -- divides large file into parts
ELIZA }
Z80CHESS}
MOMOPOLY} -- GAMES
PACMANOS}

Programs which have NOT worked for me:

LUX -- creates an environment for working with LBR files
BACKUP23A -- a backup program for hard disks (to bad, looks good)
CV -- VIEWING and comparing 2 files at once
SYNONYM -- Creates a COM file which runs a program (e.g. MBASIC SOFTCR)
QWIKKEY -- permits setting up 16 macros in addition to SFKs
UNERA -- to recover erased files. I've tried a few-no luck
MENU }
BMENU} -- a menu program (UTL#016)
CMENU}
ML92SET -- another program to control OKI printers
XAMN -- disk utility (like DU)
DISK DOC -- as above
DIALER -- to automate voice calling w/ modem
DUMP -- to send screen image to disk
DMPSCR -- as above
SEEP -- turns printer on and off from a submit file
PCPIP2 -- to read PC-DOS (but MEDIA MASTER IS GREAT)
SPELL21 -- I couldn't get this to work right-dictionary fails
UNSPOL33 -- a print spooler
DESPOOL -- as above
OZPAINT -- to create graphics to disk file

Joel Bluming
Valley Stream, NY

* * * * * * *

Four Stars for Computerland of Hutchinson

On reading about Arthur Perrone's troubles with Computerland in San Francisco in the Nov. 1984 ***FOGHORN***, I thought I'd take the time to write this comment.

I recently had a B drive go bad on my O-1 and needed a repair. Since Garden City, KS, is only three miles from The Edge of The World, the Computerland in Hutchinson, KS, is the closest place to get the O-1 repaired. Please note that I did not buy my O-1 from any Computerland store. Off it went. When they later found the problem, they called to tell me that Xerox wanted $464 to replace the drive and should they go ahead or not. I called Mission Peak Systems in Calif. and found that I could get a new drive for under $100 if I traded in the old one. Computerland said that this was OK with them and that is the route I took. The manager informed me that in no case would they charge more than $200 total, no matter how much labor would be needed. End result? Total bill of $168.71, including tax. Quite a difference from $464. Tough luck, Xerox.

This is not the first time that they've seen my O-1. Each time they've been courteous, supportive, and extremely helpful and flexible. They really seem to be concerned with my satisfaction. At least in Kansas, I'll give Computerland four stars!

Douglas R. Pearson
Garden City, KS

* * * * * * *

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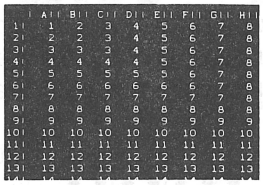
GoodBye Small Spreadsheet.



	A	B	C	D	E	F	G	H
1	1	2	3	4	5	6	7	8
2	2	2	3	4	5	6	7	8
3	3	3	3	4	5	6	7	8
4	4	4	4	4	5	6	7	8
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10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13	13

200	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
201	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
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212	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
213	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
214	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
215	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
216	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
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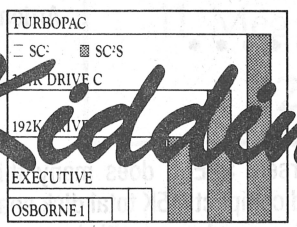

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Dear Editor

As a recent subscriber to the ***FOGHORN***, a result of the purchase of a Drive C:, I have learned my lesson. The review of SPELL was so good that I promptly ordered it without further enquiry. In the future I shall treat such reviews with a healthy dose of salt.

SPELL does read the text very fast and is quite fast at marking the text for later correction — and that's the problem. SPELL is actually labor intensive and quite slow in its use. It nicely lists the unidentified words in alphabetical order which would make looking them up very convient, but unfortunately, you do NOT have a menu option of correcting words while they are listed but can only mark them. Returning to WordStar and bring up the text, you must hit seven keys (CTRL, Q, F, SHIFT, #, ↵, ↵) for each "marked" word as you move through the text. [*One of the features of WordStar many users overlook is the ^L command. The ^L repeats the last search (^QF) or search and replace (^QA) operation. — Gale Rhoades*] Obviously, the words are no longer in alphabetical order so in addition, you are flipping back and forth in your hand hardcover dictionary. Wait, there is more. The "mark" is not hidden but replaces the last character in each of the unidentified words so that you must remove or replace it, an additional key stroke or two or three. To make matters worse, you can add words to the SPELL dictionary from the menu only, and only if they are spelled correctly. If the word is misspelled and you want to add it to the dictionary, you must go through the whole process twice. Since my dictionary, after adding a couple of words, refused to take any more, its a moot point. [***SPELL**, as with most programs is limited by the avialable disk space. You may use the **R**un option of WordStar to use a program on a separate disk. Just be sure to put your WordStar disk back in drive A: before pressing any key to return to WordStar. — Gale*]

Any spelling checker that does not offer, as part of a selection menu, the direct substitution of the correctly spelled word is hardly worth the money. A marking system that requires additional key strokes is worse. Its the old story as correspondance with the Software Toolworks readily admitte# [sic] to give SPELL the broadest market, it has been compromise# [sic] to the point that it does nothing particularly well.

Jim Larsen
Arden, DE

* * * * * * *

Response from Software Toolworks

We disagree with Mr. Larsen. SPELL does many things particularly well. It is fast and compact (45K total disk space); the list of unknown words it presents you with is generally small (i.e., mostly real misspellings, names and abbreviations) compared to most spellers, and like all Software Toolworks products it is reasonably priced ($49.95).

Mr. Larsen has also missed a few details. Searching for multiple occurrences of the mark character is a single WordStar keystroke (^L), not seven. It is easy to add the correct spelling of a misspelled word with the "root" option, but the correct spelling is probably in the dictionary already, so why bother? We don't know why he was unable to add to his dictionary; the most likely reason is a full or write-protected disk.

Mr. Larsen is correct in that SPELL does not provide in-context error correction. This allows it to work with virtually any word processor. For some people that can be an advantage. If the lack of in-context correction makes you feel the whole program is worthless, as it did Mr. Larsen, you should not purchase SPELL.

This is a good example of the need to know your own requirements, and to read reviews with an eye to whether the program is a good one for you, not just for the reviewer.

Walt Bilofsky
Chairman, Software Toolworks

* * * * * * *

WD-40, WordStar's R, Downloadable 'back hand' — Epson FX

Another word on the WD-40 controversy, I have used it on a slide projector and had the projector fan slow down and stop every time it got hot. I tried WD-40 again but it only got worse. I tried regular oil, to no avail. I thought I had lost the projector. The only way I was able to fix it was to clean the bearings with gasoline and re-lubricate with regular oil. Now it works all right again. An aircraft mechanic tells me that they use WD-40 on parts they are storing because it forms a gum that protects from rust. They take it off with solvent. He said that carburetor cleaner in a spray can works all right too, might work if you are having print pins stick on a printer. He said that for things they didn't want gummed up they use another spray oil called CRC. I don't have any CRC to try but it seems to me that it would be better for a ribbon rejuvenator than oil. Experience proves it can gum up electro-mechanical devices.

The WordStar trick of using ^R to recall a file name to print or edit a file you have just been working on is a real time saver, (cf. "WordStar Tip", page 20, October 84) however if you print one file this way, go on to edit another file and try using ^R to print the second file, you will get the file you printed rather than the one you were editing. Apparently WordStar keeps the last file printed separate from the last one edited, and only takes the last one edited for printing if there hasn't been any printing done previously.

The "C. Itoh Downloadable Character Sets" article was a dandy, (Nov. page 26) if you have a C. Itoh, I have an Epson FX, which also downloads characters, and being left handed would like to have a 'back hand' italics set. However from the manual's instructions I haven't been able to make up a complete set, The first part of the alphabet works fine but when you get to s (or whatever is placed in this position) the character generator goes off and the following letters have defects. How about an article like the C. Itoh one for the Epson? [*Anyone?*]

Russell Reed
Philippines

* * * * * * *

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SFK, Sprite Software, Olivetti PR2300SFK/SETUP

Marc E. Schreiber (***FOGHORN***, October '84) asks why he has only 72 characters available for the Special Function Keys as indicated by the SETUP program. Actually he has ten more characters available than the number indicated before any of the special function keys are defined. How come? Because in the empty mode, each SFK key includes one space. In order to provide an empty SFK, the space bar and then <ESC> <ESC> must be keyed. When all of the SFK's have been filled with characters so that the instruction reads: "0 spaces available", a count will indicate the total to be greater by ten than that originally shown . On my O-1 with DD, the total becomes 85, instead of the 96 furnished with my original SD O-1. Incidentally, on the SD machine, it was possible to program more than 96 characters, but when that occurred, it interfered with the PRINT function of WordStar.

Don't Raise That Bridge — Lower the River

Those wonderful people at Spite Software sent me one of their Best of Public Domain Software disks (II) instead of a rain check to console me for being out of stock of something else that I had ordered.

What a gift!

A wonderful program on that disk is PATCHER, written by M. Joel Guerra of the Dallas Osborne chapter. PATCHER is the patch to replace all other blinking cursor patches. Most unusual of all, PATCHER is not added to WS.COM, but instead is directly patched from PATCHER.COM to the CP/M SYSGEN of a disk containing any version of WS, CP/M, AMCALL, MBASIC and many other programs.

PATCHER adds a blinking cursor pre-set to your choice of a speed of 1-9. A dump to printer of whatever is on the screen can be instantly commanded during the operation of any program, including AMCALL. A clear screen and HOME command is always available and the printer can be toggled ON or OFF during operation of any program on the "sysgened" disk.

The cursor blinks whenever the keyboard is in control, and stops blinking when the computer is internally engaged or under the control of another computer.

The Screen Dump to the printer operates at all times to stop computer action and print out the screen display. Hitting ^? stops all computer action while all the data visible on the screen is sent to the printer or printer buffer. This is particularly helpful for printing out parts of an incoming (or outgoing) message while maintaining communication with another computer at the other end of a telephone line such as MCI, SOURCE or COMPU-SERVE. The printer can be also be toggled OFF or ON during any program for continuous printing by the command ^P. When ^P toggles printing ON, it also signals the ON condition by a beep.

I have modified the SYSGEN program, using the menu and instructions of PATCHER.COM, onto all of my disks and now I do not remember how I operated without it.

This same disk from SPITE contains the program UNERA.COM which recovers an erased file, if immediately put into effect after mistakenly erasing a file. I have added UNERA.COM to all of my WS.COM disks, and it can be put into immediate effect, after a mistaken file erasure, by first entering the "R" command mode of WS.

These programs are probably in the FOG library, possibly under other names. Spite Software sells their PUBLIC DOMAIN disks at cost with the right of the user to make duplicates for friends and other non-profit purposes.

Number Those Lines

I prepare patent applications on my O-1, and had found it necessary to employ a typewriter to manually type in the line number of every fifth line in the left hand margin of each page. The OCC ENUMERATE disk was unsatisfactory for this purpose because it could only print every line number on the page, rather than spacing line numbers apart by intervals of 5 or 10 lines, as is customary on legal documents. I was very pleased therefore to obtain the SPITE proprietary disk "WRITER'S AIDE" which contains the program NUMBER for that purpose. Number is menu-driven and can be tailored to print line numbers in the left margin to the user's requirements.

This same disk includes the WRDCOUNT program for counting of words in a document, WORDFREQ which spots overused words, and several other programs helpful to professional writers. This disk is priced at $39.95 from SPITE Software at 13531 SE Foster Place, Portland Oregon 97236.

That Ink Jet Printer (Continued)

My Docutel Olivetti PR 2300 printer is again operational now that the manufacturer has resumed delivery of the unique replacement ink jet cartridges.

However, I have a continuing problem in using the Olivetti printer with WordStar that may not be the fault of the printer, and I wonder whether anyone else has identified this glitch. When printing from a WordStar file using the KP or P command, my Olivetti printer will occasionally stop and restart only if the cover is opened and reclosed and the "ON LINE LOCAL" push button is thereby toggled. Surprisingly enough, this problem rarely occurs when the printer is printing out under the Screen Dump command of the PATCHER program. This problem never occurs using my BROTHER HR-1 Daisywheel printer.

Howard I. Podell
New Rochelle, NY

* * * * * * *

New Submission Guidelines

The new submission guidelines which David Oates announced in the March, 1985 ***FOGHORN*** appear in this issue on page 2. Please take a few moments to read page 2. In future issues, only those items which change will be listed here. All information which was formerly included on page 2 is now mailed to each member with their membership card.

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C. ITOH

I was a bit surprised to see my article printed in the November 1984 issue. The article was originally written for C. ITOH printer users in my area and uploaded to our local RCP/M. Since it was not Osborne computer oriented, it never occurred to me to upload it for fellow FOG members. I would like to thank Randy Cassingham, where ever he is, for pointing out that, regardless of the level of information each of us possess, someone out there may need it.

I hope other C. ITOH users found the article worthwhile. The article was originally written in February 1984, so I would like to take this opportunity to update some of the "facts" I gave (page 26).

1. I added the 2K buffer expansion chip to my printer in May primarily to experiment with programmable characters (I already own a Quadram print buffer). Print tests revealed a slight improvement in print buffering, but nothing compared with an external buffer. However, I fully recommend a print buffer, either internal or external. No matter how small, something is better than nothing.

The chip required to increase the internal buffer is the Toshiba 2016 or Hitachi 6116. Both will work, but you may find that the Hitachi chip a better buy.

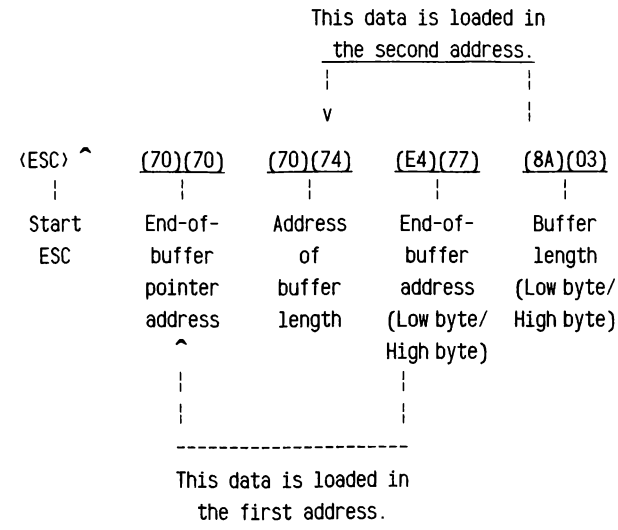
In my ProWriter (a parallel version), there was only one empty IC socket on the main circuit board, so it was easy to figure out where to put the chip. If you have never taken your Osborne apart, do not try to disassemble the C. ITOH. A hardware hacker will not have any trouble, but the novice will be in for a rude awakening.

After removing the necessary screws to get at the main board, you will find that you have about an inch or two of clearance to stick your hand in with the 2K chip. And that amount of space gets smaller with your hand in there. For this reason, find someone with a hardware background to help out. And for you hackers, the main board is unsupported, so when you insert the chip, don't flex the board too much or you may break a trace or two.

2. The rumors I heard about a 24K piggyback board are just that — rumors. But perhaps those of you on the West coast can confirm this. Although I hate to admit it, we on the East coast get news a bit late and when we do, it's liable to be incorrect.

3. As for the Epson compatible upgrade, well, the November ***BYTE*** had an ad announcing a new C. ITOH printer (the 7500) which is IBM PC compatible. Since the original IBM PC printer was the guts of an Epson, it would appear that C. ITOH decided to mimic the Epson by releasing a new printer rather than upgrading what they had. I have no facts concerning upgrading the 8510.

I would also like to point out a typo in the article [***FOGHORN***, Nov.'84]. On page 29, the figure showing the first group of hex codes is incorrect. You astute readers no doubt noticed this group was identical to the third group (page 31). The correct information is:



Also, a typo occurred on page 31. The code to enable printing of your programmable characters is <ESC> ' (that's Escape, apostrophe). The hex codes listed are correct, but the double quote mark probably confused a few people.

Thanks for a fine user magazine, and thanks to all of you who share your experiences with us. I'm afraid I get more than I give, and I hope the article helps to make up for my lack of participation. Again, thanks to Randy Cassingham and others like him, who keep prodding the rest of us. Be assured that other articles will be uploaded in the future.

Larry Dunbar
Cocoa, FL

* * * * * * *

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TIPS FOR TYROS

Writing MBASIC Programs in WordStar

by Gale Rhoades

To write an MBASIC program in WordStar, you need only name the file with the extension .BAS (for example, GAME.BAS). MBASIC normally adds this extension automatically when you save a program to disk and looks for this extension when you load and run a program.

It is normally best to write the code with the Non-document option of WordStar. If you write the code in the Document mode, you will need to use PIP (or a similar utility) to remove the eighth bit from the file. (This eighth bit is the soft hyphens, word wrap, and right justification which is needed for word processing.) To strip the eighth bit, use the following command:

PIP B:newfile.bas=B:oldfile.bas[ovz↵

where

B: is the drive the file is on and where there is sufficient room to receive a duplicate copy of the file.

newfile.bas is the filename you will will use with MBASIC.

oldfile.bas is the filename under which you created the code. (Note that the newfile.bas MUST be different from oldfile.bas.)

[ovz is the PIP command to copy the file with verification while removing the eighth bit.

↵ is the RETURN key.

The biggest drawback to using WordStar to write MBASIC code is the need to number each line of the code. The solution to this problem is a program in the FOG disk library. WRINST.BAS on FOG/UTL.036 is an MBASIC program which inserts line numbers into WordStar generated programs.

For those using this program, we suggest writing the program in a file named with a .ASC extension (meaning ASCII — the industry standard alphanumeric code such as the Non-document mode of WordStar creates), copying the program to a new filename with the extension of .BAS and then using the WRINST.BAS to generate the line numbers. This program allows you to have a file which can still be edited easily with WordStar while at the same time being able to RUN the program.

If you do not save a copy of the program without the line numbers, you will need to either keep the lines in the same order, manually change the order, or manually delete the line numbers.

To obtain a copy of this disk, you may:

1. Copy the disk at your local group meeting.
2. Download the file from the FOG RCP/M.
3. Order the disk from the FOG office (see page 2 of each ***FOGHORN*** for further information).

This same technique may be used for writing programs for most versions of basic and other programming languages. Most though, will not need the line numbers for each line so you will not need the program WRINST.BAS. Note that if you want to use WRINST.BAS, you must have MBASIC.

[*I have read a tip about using the N mode of WordStar for writing programs. It goes like this: Always go to the end of the program (^QC) before you save the program (^KD). This is to ensure that you ended the file with a* ↵*. If you do not find yourself in column one of the last line, you should either delete extra blank lines or just hit the* ↵*. For those who always end with the* ↵*, there is no need to do this. But if you make it a habit, it certainly doesn't hurt anything. David*]

* * * * * * *

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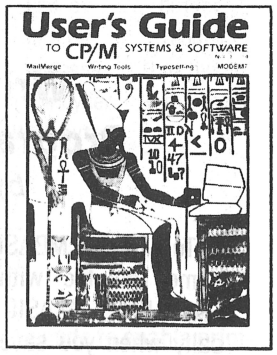

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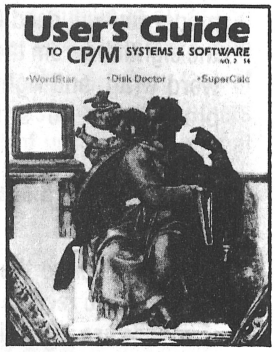

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Fogments of the Imagination Technical Questions, Hints and Kinks from the Sultan of CP/M

by Byron A. McKay

Welcome to the first ever shot at what will hopefully be a regular here in the ***FOGHORN***. As you can see, I am Byron McKay, the self proclaimed "Sultan of CP/M" who like Al Capp, I am "an expert on nothing, with opinions on everything". I shall endeavor to answer your technical questions with proper answers that are hopefully even correct. My knowledge of the CP/M product goes back to day 1, but I am still astounded by the number of questions we receive at the office that stump me. But, armed with the ability to read, and I might modestly submit, a cognitive insight where computers are concerned, I shall quest in your behalf for the best answers to your questions during my tenure. So, let us tarry no further . . . to the games!

MailMerge Woes

When I use MailMerge, about every 8 names, I receive a "6^]" somewhere in the name or address. Also, I would like to know how to avoid using the entire name (i.e.: Mr. and Mrs. John Q. Smith) in greetings to get "Dear John" rather than "Dear Mr. and Mrs. John Q. Smith".

Mr. Charles E. Downes
Folsom, PA

Mr. Downes,

When entering MailMerge data files, you must ensure that there are no extraneous characters in the data. Check to ensure that a field which contains no data (blank field) is separated by commas and quotes just like the rest of the fields in the file. Also, check to see that you have ended your data with a carriage return, and none have slipped into the middle of your data. These tips are especially true with the older versions of MailMerge, where very unpredictable results occurred if any of the above were out of kelter.

On the subject of avoiding the "Mr. and Mrs." the answer is probably not one you want to hear if you have entered a lot of names as "Mr. and Mrs. etc.", since you will have to go and break out the "Mr. and Mrs." into a separate field. I use data files which look something like this in my MailMerge work:

```
last,first,salutation,title,company,addr1,addr2,city,st,zip,home,work
 |    |      |         |      |      |     |    |   |   |    |
 |    |      |         |      |      |     |    |   |   |    |    Work
 |    |      |         |      |      |     |    |   |   |    |    Phone
 |    |      'Mr.,Mrs.' |      |      |     |    |   |   |  Home Phone
 |   First Name         |    Company  |     |    |   |  Zip Code
Last Name               |             |     |    |   State
                    Company Title     |     |    City
                                      |     Street Address
                                Apt.Number or Suite
```

As you can see, I have quite a few fields in my database, but they serve to allow you to do things like:

```
To: &salutation& &first& &last&
    &Title&
    &company&
    &addr1&,&addr2&
    &city&,&st& &zip&

Dear &first&,

  Just wanted to drop a line and verify that your work phone is
&work& and your home phone is &home&. If not could you give me a
call, so I can change them in my database.

  Sincerely,
  Byron
```

As you can see, this gives you a great deal more power when writing your letters, and other correspondence. Given some more thought, you might want to add a "petname" field for friends, or "comments" for things you always want to add to this persons output. This is just an example of a beginning file. My files have evolved to the point of using dBASE II to input the data, and then massaging it with WordStar and MailMerge.

Short Sighted Word Processor

Help! A short sighted administrator at the office insisted on purchasing a Lanier [Word Processor] for the secretary to use as a dedicated word processor, and refuses to allow purchase of an outrageously priced ($750.00) board that Lanier will sell us, to allow disk interchange with an IBM PC. I have Media Master for my Osborne DD, which allows me to exchange data with the PC at the office, but not the Lanier. Any ideas on reasonably priced hardware, or better yet, software, to allow interchange between either the O-1 and/or the PC on the one hand, and the Lanier One Step on the other.

Henry A. Fribourg
Knoxville, TN

Mr. Fribourg,

Well . . . you have yourself stuck in the old NIH (Not Invented Here) syndrome. Using the disk parameters for the Lanier (if you can get them from Lanier), and Media Master's "Other" format mode, you might be able to read or write the Lanier format, but I doubt it. Most manufacturers of dedicated word processors want you to be right where you are at present . . . stuck with an "upgrade" available only from them! There might be some other way I can't think of, but it escapes me for now. Next time, tell the boss "Caveat Emptor".

Surveyors Dilemma

I am a surveyor and an engineer who purchased an Osborne Executive a year ago. My business requires calculations with floating point functions. I programmed my surveying and coordinate geometry needs in MBASIC, and much to my chagrin found that the accuracy of all the functions named above were far less [able] than that required by surveyors. I had to write subroutines for all of these functions in order to be able to use the Executive for the calculations. This takes up a lot of memory, and reduces the storage space left for problem solving to a marginal level as well as increasing run time. Please tell me of software of hardware that has accurate math functions (9 place trig functions), preferable in BASIC, or other ways to solve my memory and run speed problems.

Dear Surveyors,

Welcome to the world of "micro" basics. MBASIC has many problems when working with math functions. Most notable, the usage of radians (common to most micro computers) instead of degrees (yuck), the limitation to 6 decimal places normally, and 12 decimal places with rounding errors out the gazoo. My immediate thought is to use SuperCalc I or II. The trig functions work in degrees instead of radians, and the accuracy is out to 16 digits internally, with up to 12 on the display. If you can't do the conversions from MBASIC to SuperCalc formulae, you might want to investigate a hard to find, but worthwhile program from MicroSoft called "MUmath/MUsimp" which is a very elaborate mathematicians package which supports virtually any number of decimal points, and allows you to use pretty standard formula notations to enter your formulae. CBASIC also has a higher decimal point accuracy than the MBASIC as well. Overall, I would say SuperCalc should do the job with the least work, and the cheapest for sure.

Typing Difficulties

Many, many users have called or written saying that they couldn't do anything with library diskettes due to there being no documentation on what to do.

Fear not, help is on the way. First off, we are planning to have a "Library Guide" to enable first timers (and some oldtimers) to be able to make use of the library software step by step. Secondly, there is documentation (manuals) for operation and descriptions of the files on the diskette on each diskette. Typically, use this reference to know what a manual will look like on disk:

If it has a File Type of	It is
DOC	A DOCUMENT FILE NORMAL
DQC	A SQUEEZED DOCUMENT FILE
TXT	A TEXT FILE NORMAL
TQT	A SQUEEZED TEXT FILE
INF	AN INFORMATION FILE NORMAL
IQF	A SQUEEZED INFORMATION FILE
READ.ME	THIS IS A FILE TO READ!
README.1ST	THIS IS A FILE TO READ FIRST!
README.TOO	THIS IS MORE INFO. YOU READ

AND OF COURSE . . . there are more file names than this which contain info., but these are the predominant file types you will see. In addition, there will be one file on each disk which contains brief documentation on each file on the disk called:

-LIB#NNN.DOC

where LIB is the library name, NNN is the disk number, and doc indicates that it is the documentation file for this disk.

[*In later files the "DOC" file may be named /SEC#NNN.DOC, where SEC is the library section and NNN is still the disk number. See* A Starter Disk for Members, ***FROM THE FOG****, this issue. David*]

Now . . . how the heck do I see what's in the files? If the file is a normal file, not squeezed that is, the matter is simplicity itself:

Method 1

The Frustrating But Effective TYPE Command

At the CP/M A> prompt enter the command:

TYPE B:FILENAME.TYP

substitute the file name of the file that you wish to see in the command where FILENAME.TYP is. This will cause the file to be displayed . . . very fast on the display. Typing a ^S (control S) to stop and start the display will allow viewing (after a fashion) of the file. Simple, and the tool is built into the operating system, but not elegant. Also, you can't "type" a squeezed file (remember the funny Q in the middle file type?), leading to a lot of frustration when using it.

Method 2

Super Duper De-Lux File Sweeper

For this one, you will need a copy of any of the NSWP programs past version 2.03, as these are the only ones which have the ability to type a squeezed file out. With the NSWP series programs you can "type" out any file on the disk (no Virginia, you can't type out a .COM file!) to the screen, squeezed or un! Merely do the following:

At the CP/M command prompt (A>) type (In my case as an example) **NSWP207** and hit ↵ (return). Use the space bar to get down the file listing to the file that you want. When there, type the **V** key (to <V>iew a file . . . get it?) and the file will be displayed one screen full at a time. Pretty straight forward, not too hard, and it does type both squeezed and unsqueezed files.

Trust us . . . There is documentation on the disks! Now with the above, you should be able to view it. P.S. you can also use WordStar to print out the documentation files that aren't squeezed thereby gaining some permanence in an ever more uncertain world!

Thanks to Mr. John M. Wilson for suggesting I get on the stick and put this stuff out!

Turbo Turmoil

I need your help with a CP/M problem. I haven't been able to locate any products that will do what I want. I am writing software in MS-DOS Turbo Pascal with my PC compatible system. I want to port finished software over to run on CP/M machines. Are there boards I can add to my system so that it will look like a CP/M system to a CP/M Turbo Pascal compiler, for the conversion work? Are there any emulators that do what I want? Please supply the names and addresses for any suppliers of suitable boards and emulators. Many thanks for your attention . . . and Help!

Frank J. Mihm
Aptos, CA

Frank! You have everything you need right now! The programs you have written in Turbo Pascal are completely transportable (after a recompile) to the Osborne, Kaypro or any other CP/M machine. There are some caveats (aren't there always!) to that, but in general, if you have not used direct calls to PC-DOS or any hardware, you just recompile the programs under the CP/M 80 version of Turbo Pascal and off you go. You may move your files onto Osborne (or other) formats with XenoCopy on the PC, or with Uniform or Media Master for the Osborne. Once moved, use a CP/M 80 copy of Turbo Pascal (ok, so I lied, you do have to have a couple of programs) to recompile the program and off you go. You might also want to investigate using the Turbo Tools terminal installation TINST program to enable the program to be compiled on one machine and used on any other. [*See the review of TOOLBOX in **SOFTWARE REVIEWS**. David*] That is the easy way. Now for the one machine method. First, you will need a board called BABY BLUE from a company called XEDEX (available from most reputable PC type dealers), and either install it yourself (not hard), or have a dealer do it for you. With this board, you will find you can run CP/M-80 programs under MS-DOS. I have no idea whether you will be able to run Turbo Pascal on this board though, as it is rather "operating system dependent", meaning it uses the operating system very thoroughly when in operation. Since the Xedex card is not even running CP/M, but rather hooking CP/M programs into MS-DOS, anything goes! Another alternative is to investigate any of several machines which run both MS-DOS, and CP/M by means of dual processors. Fujitsu's 16S computer is without a doubt the fastest (and a bargain) of the bunch, with the Zenith Z-100 a close second. Viasyn (formerly CompuPro) also seems to be coming into their own with dual processor computers that look like MS-DOS computers. Hope this helps.

Well, that is all for this month, wish we had room for more, but space constraints limit me to the number of questions shown here. If you like this, send us a card or letter, and we will see about continuing it monthly with the new Tech Support Person (yes the decision has been made!) who will be replacing me. If that happens before next issue, I have really enjoyed talking to all of you at the FOG Office, and wish you all the very best! Good things come out of the FOG!

* * * * * * *

Personal Pearl Help

by Jason M. Bloomberg

Greetings. This month I would like to get you started in using Personal Pearl. I have submitted an application program to the FOG library. It should be making its way out to you soon. It will allow you to track your vehicle use and operational expenses in a manner that should be sufficient for tax record purposes. It is designed to work for either a family or business with a fleet. Even if you have no need or desire to use it, you may find it interesting to examine. Make a print out of it using the procedure described in this column ***FOGHORN*** Vol.IV No.5.

A means for making any version of Personal Pearl easier to access from the A> is to set up your function keys. This will eliminate the need to type each modules' name when invoking it. Set up your keys as follows:

^1 PEARLDF↵
^2 PEARLDR↵
^3 PEARLED↵
^4 PEARLPR↵
^5 PEARLFM↵

(The "^" indicates "control".)

Another quick tip to making your application execute as quickly as possible, keep your fields as short as possible and limit field names to no more than three characters. The field names are the label you assign during step 2 of the design session, using the ^B command. These labels identify the fields for the program. Your labeling of fields in the layout (step 1 of the design session) of your application may be as long as you need.

Before we dig to deeply into using Personal Pearl, we need to look at how it functions overall. This can best be done by examining the sections in the documentation regarding the "File Maintenance" module (3:67-77,111-129) ver. 1.02, <3:68-74,107-114) ver. 1.06, |Ref. Man. R-85 — R-94, Appendices D&E D-1 — E-3| for ver. 1.10. Regardless of which version you are using certain operations remain consistent between the versions to allow their compatibility. The types of files created by Personal Pearl are important to understand. If you have problems, frequently it is because of a partially installed file. Very often, the problem can be corrected by erasing a partially installed file and reinstalling it again. Types Of Files:

PEARL.DIR — Contains the directory of (input) forms on the disk you are using. It is required on both Production and Development Disks.

All of the other files will have the prefix of your Form or Report name. A form called CASH will have files called CASH.*. The * in this case represents a wild card suffix (used only for this article and not by Personal Pearl itself). A report called Journal will have files called JOURNAL.*. In this article Form generated files will be called FORM.* and Report files will be called REPORT.*. The wildcards will be replaced as appropriate to illustrate the topic being discussed.

FORM.S00 Contains all of the information you put into the design of your input form during the "DESIGN FORMS" session. This data is the uninstalled skeleton of your input form and data file. NEVER ERASE THIS FILE UNLESS YOU ARE INTENDING TO THROW AWAY ALL OF YOUR DESIGN EFFORTS. This file must be present on development and not necessary on production disks.

FORM.D00 This is the data dictionary (or data file), where all of the information you put in via your input form, during the "ENTER DATA" session resides. It is created on a development disk and transferred to the production disk with option 5 of "FILE MAINTENANCE". It may also be created with Option 4 of "FILE MAINTENANCE" , if you wish to use multiple disks for massive data files.

FORM.L00 This is the loading file used during data entry. It is required only if you plan on putting more information in your data file. If you have a fixed file, such as a catalog of magazines for a specific year and you do not want anyone to be able to alter its contents, then delete this file from your Production disk. If you have used "FILE MAINTENANCE" option 4 or 5 you must use option 6 if you intend to be able to enter data on your Production Disk.

FORM.E00 This is the indexing file for your data. In it resides the information that determines what data fields are unique or nonunique indexes. Indexing is a complex subject which I will elaborate on in a future article. This file needs to be on both Production and Development Disks.

FORM.DIR This is the menu of Reports produced by each Form. All of the files are created automatically in the "DESIGN FORMS" session, however this one is modified by the "DESIGN REPORTS" module. It is required on both Production and Development disks.

FORM.Q00, FORM.K00, FORM.T00, FORM.V00, and FORM.F00 are all temporary files used by Personal Pearl. They are created when needed and should be automatically deleted when their use has been completed. If you find them on your disk, delete them. Reattempt the procedure you were doing when they were left behind. Usually this happens during final Form Installation, and is an indication of false installation of a form. This has happened to me on two occasion. The first was a bad diskette. The second was a bad memory board. Personal Pearl found the bad board before I did, as the area of memory that was damaged was not used by WordStar or SuperCalc. When I ran my copy of the Exec. Diagnostic Disk, it confirmed my problem was hardware, NOT software related, allowing the problem to be corrected prior to warranty expiration. This saved me BIG BUCKS!

REPORT.R00 This is the file with all of the layout details including sorting information about your report. It is required only on your Development disk. NEVER ERASE THIS FILE, UNLESS YOU ARE INTENDING TO THROW AWAY ALL OF THE TIME YOU USED IN DESIGNING ITS APPLICATION!

REPORT.M00 This is the file that determines how the data file is used when actually producing reports. It must be on the Production disk.

Development and Production disks are simply a means of designing your applications, creating updated versions, and making back up files without risking your data dictionary. If you create a form and report series, transfer the pertinent files to your Production disk. Unnecessary files used only for creating updates or new versions will be left on the Development disk. This will allow you more room on your Production Disk for the data dictionary. If you wish to make an update, use the Development disk and transfer the changes only after you have tested them. This way you will not risk loosing your data dictionary if an error occurs during reinstallation. As an example, if you were to rename a field in a file, all of the entries previously entered in that field would be lost. This sort of costly oversight may be avoided using the Development, Production disk system. Fields may be moved around within a file without data loss.

I hope this gives you a better understanding of the workings of how Personal Pearl operates in creating and using files. This background should allow you more access to this tool's capabilities as your design needs and abilities expand. Next month we will begin creating a sample database together. It will evolve from a simple single file, single report application to one that will demonstrate many of the more advanced features Personal Pearl has to offer.

For those of you who have been waiting to hear about the new update, I have received my copy of version 1.10. I received it one week to the day after placing my order. I did opt to pay the extra for the express shipping. It comes with the master disks set up exactly as you would set up your working copies. An exception to this is the INSTALL FORMS AND REPORTS modules, which are packaged separately and should reside on the DESIGN FORMS, and DESIGN REPORTS disks. There is one slight problem that effects Exec. users only. Because, there are now four disk configurations (with regards to density) available for Osbornes, PearlSoft has made the help text file unified (apparently it was split up only on ver. 1.06 for the Exec. at OCC's request). This means for Executive owners, as with version 1.02 you will need to decide if you want to have your DOS or help text file on the "DESIGN FORMS" and "DESIGN REPORTS" modules. As an alternative, the help text

from ver. 1.06 will work with ver. 1.10. This means you may take your help text that OCC split up and place it on these disks with out any operational problems. With CP/M 2.2 only taking up 2K of disk space, compared to CP/M 3.0 taking up 18K, the problem of the help text files is created for Exec. users. The unified help text file is usable by double density 0-1s, double sided Execs., Vixens, and any model using a hard disk. I am still waiting for more information regarding single sided single density systems.

For working with data files smaller than approx. 40K. I created a copy of my installed "PRODUCE REPORTS" disk with sort on it. This eliminates 3 disk swaps. With a double sided drive I included "ENTER DATA" to the above. This makes Personal Pearl very fast, when working on these smaller files. Larger files require more disk space, to create temporary sorting files, and may result in errors if used with that quick report generator. As always, use the right tool, for the right job.

The new Sort program is very fast. It is also very smart. If you have left, less than 10K on your file disk (the one in drive B), it will begin sorting, and then prompt you to place a blank formatted disk in drive B. It will use this disk to create transient sorting files, and when complete, prompt you to replace it with the file disk you started with. How does a potential for an added disk swap benefit the end user? One no longer need to leave any blank space on a disk for sorting.

The latest version 1.10 allows recovery of damaged data dictionaries via option 7 of the "FILE MAINTENANCE" module. This is done by excising individual corrupted records from a disk. Anyone who has worked with any database and had a head crash ruin a data dictionary will appreciate this feature.

The new documentation I received is a definite improvement. The big difference is not so much content, as layout. Everything is contained in a single three ring binder, with sections separated by tabbed dividers. I am adding more page tabs to mine to index key areas as I go through it. I recommend you do the same. The print quality makes reading the text more comfortable. The typeface is boldfaced at key points, and they've opted to make the pages less dense, to avoid overwhelming the reader. Dense text can make reading a serious strain, much the same way viewing a full 80 columns can on a small monitor in comparison to a large monitor. (Obviously, much depends on individual eyesight). Because each subsection is tabbed, it is easy to find the index for the subsection you are using. I would still like to see a unified index to refer to the whole manual, with consecutive page numbering through out from start to finish. But, as it stands it is far better than the INDEXLESS ver 1.06, I received from OCC with my Exec. Instead, PearlSoft numbered some of the pages on the bottom within each section, and sub-numbered all of the pages on top. The table of contents refers mostly to the numbers on the tops of pages, where as the index uses the numbers on the bottom of the pages most often. There is a fair amount of new information that has been incorporated into the documentation that will help experienced users as well as new. Consideration has been taken to explain in more detail some of the items that previously were assumed to be self evident in prior editions. This should help avoid confusion, and wasted time from working under an incorrect premise. Tim Carr at PearlSoft's sales dept. told me a new set of documentation is going through final editing procedures. It may be better than what is available now, but except for the faults I've noted, I consider this book a substantial improvement over the previous editions. I feel the content of the earlier editions was acceptable, but their layout and organization combined with the terse explanations given to certain operations, made them difficult to use.

I am satisfied, so far, with my upgrade. It has some new features, and appears to have all of the bugs I've experienced previously, corrected. The documentation is improved as promised. I am still testing it and am trying specifically to find the new versions weaknesses. You will have to decide for yourself whether or not you care to part with $75.00 plus postage for the upgrade. For me, it was money well spent.

I received a letter from W. M. Corbin in Fort Myers, Florida. Mr. Corbin has a construction company. He wishes to know if Personal Pearl will support his record keeping needs. Any data management system will support some uses and not others. My advice is to clearly define what ones needs are. If you want to use a computer for accounting and you have no idea how accounting systems are supposed to operate (computerized or otherwise), there is a big potential for trouble. Personal Pearl can support general ledger accounting systems. But so can SuperCalc, which is a spreadsheet. SuperCalc will require manual entry of data on each spreadsheet. Personal Pearl will not be able to perform certain types of analytical functions. Personal Pearl can sort information and load it into a SuperCalc readable file. For more information about this see (3:21-24,163-174), <3:26-29,145-156> , |Ref. Man. R-32 — R-35, H-1 — H-12|.

Until next month when we begin using Personal Pearl together, Take care and have fun. If you need additional help you may contact me. See this column in ***FOGHORN*** Vol.IV No.6 for details.

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ARTICLES

A Trip Through the File Patching Utilities — I Put Patch Identification In My WordStar Menus

by Arthur Perrone

It seems like each week a new and wonderful patch for WordStar gets added to the FOG Disk Library and of course I have tried them all! Phew, I now have quite a mess of programs scattered around Ozzie's file room. Added to this I had to consider all the "Installed" versions of WS I had modified for my printer. To keep track of all this activity I tried a couple of different schemes but each one had a flaw. I put labels on the disks; kept a notebook with a directory. The problem was really compounded when I had several patched WS.COM files on the same disk. It was too easy to forget which program I was running and whether the printer options I needed were a part of this particular file. The whole thing had really gotten out of hand!

The purpose of this brief discourse, is of course, to share ONE of possibly 136 solutions to this problem with other FOG members.

The thought occurred to me that there might be room in the WS MENU to add a little message of my own. I could then identify a patched program right in the menu and it would almost always be right in front of my little eyes.

Never having done any original patching before I started with the FOG Library Catalog and wandered through it hoping to find something that might make this little enterprise as painless as possible. I chose EDFILE from FOG/UTL.042. (It turned out to function very much like DUU and its offspring. More on this later.)

My first shot was to use the search capability of the program to look for "DIRECTORY". It didn't work so I started looking through the file "manually". Down about record 17 I found it. The editing functions in EDFILE are sheer wizardry! It permits editing the file in either HEX or ASCII, right on the screen. I chose to do the editing in ASCII. In a flash it was done. I had changed:

```
"DIRECTORY of disk   :"to
"WSP2 DIR  @  disk   :"
```

Then, just as quickly, I changed another disk to:

```
"WSBLINK DIR @ dsk   :"
```

After I saved the results to disk with the command ^W, I executed the modified file. The results were not what I had expected. The text that I added was half intensity while the part of the original text which remained was full intensity (its original condition). It was not as expected, it was better! The modification was very, very obvious. When I edited the Patch2 version of WS the effect was to have the edited portion underlined.

This was wonderful but why was it different. Well I had expected to find WS using 44 hex to represent a "D" but the WS file used C4 hex to display a full intensity letter "D" in the menu. I had edited the file using the editor in the ASCII portion of the listing (dump). When I replaced the letter "D" with "W" the hex display changed to 57 hex and the result was a half intensity character. I had expected that but the change to half intensity was a surprise. The manual doesn't even list an ASCII character greater than 7F hex. So what the hell was a C4 hex doing there? With a little research I discovered that the first 128 characters were the FULL intensity characters (at 7 bits each) and the next 128 characters were the HALF intensity characters (at 8 bits each). I screwed around with this small insight for awhile but couldn't really get excited about anything I discovered. The stuff is just there.

The one curious thing which persisted was that WordStar uses these hex characters in the reverse of the way they should be expected to work. I continued to use EDFILE but without success. I was looking for the character string "1B 29" or "1B 28". The file was fairly full of them but I was having trouble sorting out how they were used. So off I went back to the FOG Library Catalog for another tool to use in unscrewing this little mystery.

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I tried twelve files in all. There was some success and some failure. MSA15 just wasn't up to it. It is supposed to disassemble the file and produce a .ASM file. The file just worked forever lost in some loop and produced nothing. In all fairness, it worked as advertised with smaller less ambitious programs. DISASSEM was another marvel. It would work for awhile then take a fit and destroy the disk directory on the two disks which were mounted. Both of them! Yee Gads what a thrill that was!

There turned out to be two categories of files in the Library for this sort of job. There were the files which all resembled DDT in some form of another. They all work by manipulating the .COM file in memory then SAVING the altered file back to disk. DUU lets you examine the full disk including the 3 system tracks. You search for a file and with that information go to the track and sectors where the body of the file exists. EDFILE does not give you access to the system tracks but goes right to the .COM file for you and loads it into memory and away you go. The editor on EDFILE is far superior to the editor in DUU.

The other type of file takes the BINARY file directly from the disk, disassembles it then sends it to the CRT, your printer or back to the disk as a .ASM file which is an ASCII text file. The final results are at the mercy of the programmer who wrote the original disassembly program you are using. There are some abnormalities in each and the resultant .ASM file may not LOAD (recompile) and run as it did before. The best program seemed to be RESOURCE but other programs which worked easily enough for an Apprentice Spook to understand included ZDASM14 and UNLOAD.

RESOURCE is by far the best documented. Even if you have to wade through a little bather, there is some real information there; how unique for documentation!

The one problem with RESOURCing WS was the resultant .ASM file is HU-MON-GOUS! The original WS file is 16K. That is fairly large as micro programs go. The RESOURCE program grounds through it at a very respectable speed . . . saving the program to disk . . . but it ran out of disk space. Resource was only about 1/3rd the way through WS when the disk filled up and Ozzie crapped out with the dreaded BDOS BLUES! By that time the file was up to 160K and it wanted twice that amount in additional disk space. So the solution would be to hack away at it in pieces . . . but what the hell.

RESOURCE has a little quirk that needs some explaining. It produces a DUMP of the disassembled program right to the CRT or PRINTER which is very complete. It shows both ASSEMBLY LANGUAGE and the ASCII counterpart. When it disassembles a .COM file to disk only the ASSEMBLY LANGUAGE information goes over. There is certainly a reasonable explanation for this but when you have training wheels on, a fella needs all the help he can get. The one way around it is to dump the stuff to the printer and work with the hard copy. When you sort things out and decide to make a change crank up Ozzie. It just seems so old fashioned and wasteful to use paper.

To keep things as neat as possible and finish off the modifications I had started, I modified AUTOST.COM to boot and load the version of WS I used most frequently on each individual disk. I then patched the sign on message in AUTOSTART to announce that version of WordStar. There is a limited amount of space available for the new sign on message but it was enough to do the job.

I never did figure out why WordStar was so unusual in its handling of standard hex characters but I had a wonderful time with the FOG Library and learned a little more about the wizardry hidden within the little blue case [Osborne 1].

* * * * * * *

WATOR1

by Michael A. Stoodt

WATOR1 is an implementation of ideas suggested in the Computer Recreations column in ***Scientific American***, December 1984 issue (pages 14 to 22), written by A. K. Dewdney.

It is a simulation of the ecology of a imaginary planet called Wa-Tor. The planet is torus-shaped (like a doughnut), and covered with water (hence its name). The two dominant species are referred to as sharks and fish, due to their behavior. Fish breed quickly, and would completely fill the ocean if allowed to. Sharks restrict the fish by eating them voraciously; but if a shark can not eat any fish in a given period of time, it starves to death. Sharks also breed, but (usually) more slowly than fish. This combination causes a cycle of population increases and decreases: when fish prosper and do a lot of breeding, then sharks start to increase their numbers; when the sharks get too numerous, they eat so many fish that the number of fish decreases rapidly; then the sharks begin to starve, and the fish can start to increase in numbers again. For more details on the ecological ramifications, see Dewdney's article.

Running the program is simple. The only file necessary is WATOR1.COM, which is started by giving the command WATOR1 at CP/M's prompt. The program starts by asking you to enter the data that describes the situation: the number of fish and sharks in the ocean, their breeding rates, the length of time it takes for a shark to starve, the probabilities (in percents) that a fish (or a shark, if it has nothing better to do (i.e. eating a fish)) will move into an adjacent position, and whether the initial ages of the fish and sharks should be determined randomly or not. Each of these questions has a default answer, which is printed in angle brackets. If you just type a ↵ to these questions, the default value will be used; otherwise, the number you enter will be used for that value. The values for initial number of fish or sharks can be any positive integer; probabilities should be between 0 and 100 (they are measured in percents); and lengths of time (for breeding or starvation) are limited to 255 as a maximum. (Using a value over 50 for these times is not really reasonable, since it would take a long time for that attribute of the species to take effect. A high value for fish breeding time would let the sharks eat them all up; a high value for shark starvation time would make it unlikely that any fish will survive the first shark population explosion; a high value for shark breeding would make the population cycles take forever.) The initial ages should almost

always be determined randomly (answer **y** or just ↵ to this question).

A last question before the program starts to run asks you if you want to keep a record (in a file) of the populations of fish and sharks after each unit of time. If you answer yes (by typing a "Y"), you are asked for a file name. (A return or a "N" prevents the program from making this file.)

After a moment, the screen will clear and the initial population of the ocean is shown. Sharks are represented by X's, and fish by O's. Because the planet Wa-Tor is toroidal in shape, the positions at the top of the screen are considered next to the positions at the bottom of the screen, and creatures can go from the extreme top of the screen to the bottom by moving "up" (and vice versa); the positions at the extreme left are next to the extreme right as well. (Blank locations have no creatures in them.) The bottom line of the screen tells the current time (in undefined units, starting at zero) and the current population of fish and sharks. You might notice the locations of some of the sharks, and their relationships to nearby fish.

After a few moments, the next unit of time will have passed, and the screen is redisplayed with the new positions of fish and sharks. The number of both will probably have gone up; they have already started breeding. When a creature breeds, a new one of the same species appears in an adjacent location. (If you set the program not to randomize the initial ages of the creatures, this won't happen immediately; all of the fish will (try to) breed at the same time.) Sharks that were not next to any fish may have moved one position in some direction; sharks that did have fish next to them have moved into the fish's previous location and eaten the fish. (It is possible that the fish might have moved to another adjacent position, and the shark then happened to move into that location.) And some of the fish might have moved, too.

This process of moving, breeding and eating will continue until you stop the program. You may stop the program by hitting any key and holding it down. When you hear a beep, the program has noticed that you want it to stop, and will finish the current unit of time, redisplay the screen one last time, close the file that was recording the population if you were writing one, and quit. (You have to hold the key down, or keep hitting the key, because the program is not continually checking the keyboard, although it does check fairly often.) (The program will also stop automatically if either species becomes extinct.)

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Implementation Notes

This program was written in Turbo Pascal. Converting it to another version of Pascal will not be too difficult: the only special features of Turbo that I used in the program were the CLRSCR and GOTOXY screen procedures, which clear the screen and position the cursor (used only to "home the cursor" to position 1,1 at the beginning of a redisplay), the KeyPressed function (which checks to see if a key has been pressed), and the use of defaults on numeric entry from the keyboard. (If you assign a numeric variable a value, and then do a Read of that variable, then if the user just types a return, the variable's value is not changed.)

This program should be fairly easily adaptable to other computers; it was compiled for an Osborne 1 using a 59K CP/M. The GINST program from the Turbo Toolbox will allow reinstallation of the COM file for other computers that have a CP/M of about the same size (larger or slightly smaller). If the CP/M size is much smaller than 59K, then the data area of the program might overwrite the BDOS, so the program must be recompiled to allow for the smaller memory. (If GINST is not available, recompilation will also allow the program to work on other terminal types.)

The program uses 80 columns (actually 79); to modify it for a 52 column screen, change the constant at the beginning of the file from 78 to 50 and recompile. (A sixty-four column screen can use the constant 60. Note that each of these constants is one less than a prime number: this is a requirement for the program to work correctly.)

The details that I used in this program are quite different than the ones suggested in Dewdney's article. He suggested using several arrays of integers that indicate the positions, ages, etc. of the creatures; I used an array of structures, the structure having a variant section handling the different conditions (empty, a fish present, or a shark present).

Dewdney suggested processing all of the fish, then all of the sharks. Instead, I process each of the elements of the array in some order, so that the fish and sharks are processed in whatever order they happen to occur in. The order in which array elements are processed is determined partially at random. A Delta_X and Delta_Y are chosen at random to be between 1 and the upper bound of the array in that direction minus 1. (A random starting location is also chosen.) The Delta_X and Delta_Y are added to the current location, wrapping around (using a modulo function) as necessary. Because the dimensions of the array are prime numbers (and not equal to each other), this will visit every location before it comes back to the starting location. (Notice that a location reached through this ordering may already have been processed, by moving a creature from an adjacent location into the current location.)

Dewdney has the fish and sharks move whenever possible; I added the random chance of moving, and gave the default values so that fish do not move as often as sharks (the fish are too dumb to run away from the sharks, and the sharks sometimes stay still hoping that a fish will come into its area).

The routines that look into adjacent locations searching for a position with specified contents (CHECK and its sub-functions) may seem overly complex, but the way they were written ensures that each position has an equal chance of being checked and chosen. The routines used choose a permutation of the possible directions at random (for example, "up-left-right-down", or "down-left-up-right"), and checks the directions in the order specified by that permutation. If, however, the routines checked the cells in a specified order (such as "clockwise, starting from 'up'") or a specified order with a random starting point (such as "clockwise, starting in a random direction"), then some positions will be chosen more often than others. (For example, if you are using the "clockwise, starting in a random direction" system, and the cell you are checking has the desired contents in the "up", "left", and "right" positions, then the "left" cell has two chances in four of being selected — the random direction can be either "left" or "down". Not even choosing clockwise or counter-clockwise at random will solve this — in the above position, the "left" and "right" positions will each have a 3/8ths chance of being chosen to a 1/4 for choosing "up".)

This program might be improved in several ways. Adding additional species is one way to modify the ecology (for example: add a whale or two — never starves, eats fish (and maybe sharks), but very rarely breeds; maybe it moves two (or even more) positions per unit of time). Making sharks more intelligent about moving toward fish when there is no immediately available food is another. (Or make the fish intelligent enough to move away from sharks!) Adding some human input during the running of the program might be desirable, but I can't see what the user might control (the movement of the whale suggested above?).

On the mechanics of the program, fixing it so that it immediately picks up a pressed key would be nice. (The program calls KeyPressed fairly often, so I don't know why it takes so long for the keys to be noticed. If absolutely necessary, it ought to be possible to intercept the Osborne 1's interrupt that allows the BDOS to check for pressed keys, but that is getting too machine-dependent for my taste.) Adding the ability to dump a screen display to the printer (or to a file — possibly the same file as is recording the population) might be nice. (But you certainly wouldn't want to do it for every unit of time.)

If you make any of these changes (or any other ones you might dream up), please send me a copy (a hardcopy of the listing ought to be OK, unless your changes are very extensive) to the address in the copyright message below. (And if you find something exceptionally interesting, you might also want to inform A. K Dewdney, who inspired this program, care of ***Scientific American***.)

Have fun experimenting with ecology.

[*Copyright © 1984 by Michael A. Stoodt, 28 Beach Street, West Wareham, MA 02576. The author grants permission to copy this program on a not-for-profit basis. No copies of this program may be sold for profit except by the author.*]

[*WATOR1.COM has been submitted to FOG and forwarded to the Games Librarian. Watch the* ***FOG MEMBER LIBRARY NEWS*** *section for the release of this disk.*]

* * * * * * *

CALENDAR

Under this heading you will find the listing of activities and events of Affiliated Member Organizations. Listings are the responsibility of the groups' officers. Officers must have corrections into FOG office by the first of the month prior to publication (December 1st for the January issue). For a list of other groups, see ***"CONTACTS"*** in back issues starting January, 1983, or send a stamped, self-addressed envelope to the FOG offices. Please include a note with your geographical area. To verify the meeting date, time, or location, call the number in the right hand column.

Date	City	A.M.O.	Day	Time	Meeting Address	Contact No.
Apr 20	Kenai, AK	18-PenFOG	3rd Sa	10:00am	Room V111, Kenai Peninsula Comm. College	907-262-5801
Apr 15	Anchorage, AK	63-GLOB	3rd M	8:30pm	Anchorage Comm. College, 2nd Floor — Bldg K	907-345-0383
Apr 11	Sitka, AK	83-BUG	2nd Th	7:30pm	Human Services Center, 207 Moller Dr.	907-747-5372
Apr 14	Ketchikan, AK	89-KCPM	2nd Su	4:00pm	320 Bawden Suite 101	907-225-6476
Apr 27	Homewood, AL	49-FAOUG	last Sa	11:00am	Homewood Public Library, 1755 Oxmoor Road	205-942-3706
Apr 4	Huntsville, AL	125-NAOUG	1st Th	7:00pm	Madison County Court House, Jury Venire Rm	205-881-0377
Apr 11	Ft. Smith, AR	23-AFOG	2nd Th	7:00pm	Lewis Paint and Supply, 4900 Wheeler Avenue	501-785-0820
Apr 2	Tempe, AZ	100-TOG	1st Tu	6:40pm	Tempe Public Library, Southern Ave at Rural Rd	602-438-2731
Apr 3	Stockton, CA	11-SOG	1st W	7:00pm	Allen's Computerland 4343 Pacific Ave.	209-473-8440
Apr 8	Fresno, CA	35-FROG	2nd M	7:00pm	Village Computer Systems, 3081 W. Bullard	209-683-2252
Apr 17	Long Beach, CA	130-OPEN	3rd W	6:30pm	C.S.U., Learning Assistance Center	213-498-4186 x 5350
Apr 4	Santa Clara, CA	1-1st FOG SV	1st Th	7:30pm	CONFIRM	408-371-8699
Apr 18	Santa Clara, CA	1-1st FOG SV	3rd Th	7:30pm	CONFIRM	408-371-8699
Apr 12	Salinas, CA	5-MBAOCUG	2nd F	7:00pm	Castroville Fire Station, Speegle & Pomber	408-449-4021
Call	, CA	65-ENROBSO	????		By arrangement only — CONFIRM	408-458-9047
Apr 25	San Francisco, CA	2-SFCS	4th Th	7:00pm	St. Aidan's Church, Goldmine & Diamond Hgts.	415-239-1399
Apr 10	Oakland, CA	3-East Bay FOG	2nd W	6:00pm	B & B Electric, 2832 Ford Street	415-834-7897
Apr 9	San Rafael, CA	31-MOG	2nd Tu	7:00pm	San Rafael High School, 2nd Street	415-897-0629
Apr 17	Walnut Creek, CA	60-MTDOG	3rd W	7:00pm	SF Federal, 1660 Olympic Blvd, Diablo Rm	415-254-8887
Apr 1	Menlo Park, CA	68-SMOG³	1st M	7:30pm	Crane Place, 1331 Crane	415-325-2442
Apr 1	29 Palms, CA	114-HOG	1st M	6:00pm	Marine Corps. Air Ground Combat Center, Bldg. 1859	619-362-4730
Apr 17	Humboldt, CA	29-HOG	3rd W	7:00pm	Room 126 Science Bldg., Humboldt State	707-445-2074
Apr 4	Santa Rosa, CA	56-No. Bay FOG	1st Th	7:00pm	Valley Oak Park Rec Hall, 2600 Northcoast	707-546-0145
Apr 2	Santa Maria, CA	42-SMOG	1st Tu	7:00pm	All State Savings and Loan, 401 South Broadway	805-937-1128
Apr 18	San Luis Obispo, CA	47-CCOG	3rd Th	7:00pm	TRW, 1050 Southwood Drive	805-466-8311
Apr 30	Santa Barbara, CA	69-OSBUG	last Tu	7:30pm	SB Planning Rm, 105 E. Anapamu St	805-687-8541
Call	Sierra Madre, CA	66-SMOG	????		By arrangement only — CONFIRM	818-355-8825
Apr 12	Chatsworth, CA	86-ONUG	2nd F	7:00pm	20630 Lassen Street	818-709-6202
Apr 22	Sherman Oaks, CA	106-TUG-NET	4th M	7:00pm	Central Savings, 4464 Van Nuys Blvd.	818-994-6567
Apr 3	El Monte, CA	113-El Monte	each W	5:00pm	Chadwick-Helmuth 4601 N. Arden Drive	818-575-6161
Apr 10	El Monte, CA	113-El Monte	each W	5:00pm	Chadwick-Helmuth 4601 N. Arden Drive	818-575-6161
Apr 17	El Monte, CA	113-El Monte	each W	5:00pm	Chadwick-Helmuth 4601 N. Arden Drive	818-575-6161
Apr 24	El Monte, CA	113-El Monte	each W	5:00pm	Chadwick-Helmuth 4601 N. Arden Drive	818-575-6161
Apr 11	Davis, CA	6-DOG	2nd Th	7:00pm	PG&E Warehouse Classroom L Street	916-756-2967
Apr 3	Sacramento, CA	61-SOG	1st W	7:00pm	SMUD Training Bldg, 1708 59th St	916-422-3260
Apr 4	Denver, CO	4-DOG	1st Th	7:00pm	Clements Comm. Center 2nd Floor 1580 Yarrow	303-934-1407
Apr 17	Ft. Collins, CO	115-FTCOG	3rd W	7:30pm	C.S.U., Gibbons Hall Rm. 201	303-226-4561
Apr 3	Colorado Springs, CO	133-CSOG	each W	7:00pm	Hewlett Packard, Garden of the Gods, Spruce Rm	303-473-7647
Apr 10	Colorado Springs, CO	133-CSOG	each W	7:00pm	Hewlett Packard, Garden of the Gods, Spruce Rm	303-473-7647
Apr 17	Colorado Springs, CO	133-CSOG	each W	7:00pm	Hewlett Packard, Garden of the Gods, Spruce Rm	303-473-7647
Apr 24	Colorado Springs, CO	133-CSOG	each W	7:00pm	Hewlett Packard, Garden of the Gods, Spruce Rm	303-473-7647

Continued next page

Date	City	A.M.O.	Day	Time	Meeting Address	Contact No.
Apr 13	Colorado Springs, CO	133-CSOG	2nd Sa	1:00pm	Bell Tower Apt. Club House, Academy and Constitution	303-473-7647
Apr 10	Danbury, CT	40-DOG	2nd W	7:00pm	Preferred Utilities Mfg, 11 South St	203-792-7959
Apr 24	Danbury, CT	40-DOG	4th W	7:00pm	Preferred Utilities Mfg, 11 South St	203-792-7959
Apr 4	Orlando, FL	16-GOOUG	each Th	7:00pm	Room 203 Orlando College, Lee Road	305-847-7031
Apr 11	Orlando, FL	16-GOOUG	each Th	7:00pm	Room 203 Orlando College, Lee Road	305-847-7031
Apr 18	Orlando, FL	16-GOOUG	each Th	7:00pm	Room 203 Orlando College, Lee Road	305-847-7031
Apr 25	Orlando, FL	16-GOOUG	each Th	7:00pm	Room 203 Orlando College, Lee Road	305-847-7031
Apr 4	Maitland, FL	20-CFLOG	alter Th	7:00pm	Lake Faith Villas, Maitland Blvd	305-298-8576
Apr 18	Maitland, FL	20-CFLOG	alter Th	7:00pm	Lake Faith Villas, Maitland Blvd	305-298-8576
Apr 14	Miami, FL	26-GCOUG	2nd Su	1:30pm	F.I.U Tamiami Campus, Building DM, Room 100	305-251-7666
Apr 11	Ft. Lauderdale, FL	91-FLOG	2nd Th	7:00pm	Harris Comp Sys, 2101 W. Cypress Creek	305-748-7237
Apr 10	Jacksonville, FL	98-JOUG	2nd W	7:00pm	JEA Bldg, 233 W. Duval Street	904-398-0598
Apr 10	Athens, GA	81-COG	2nd W	7:30pm	Athens Federal Savings, Barnett Shoals Road	404-353-2127
Apr 24	Athens, GA	81-COG	4th W	7:30pm	Athens Federal Savings, Barnett Shoals Road	404-353-2127
Apr 8	Atlanta, GA	93-TOGA	2nd M	7:00pm	Emory University, Chemistry Bldg. Ampitheater	404-457-4775
Call	Hilo, HI	124-HIFOG	????		Shayne Enterprises, 180 Kinoole Street	808-935-8678
Apr 10	Davenport, IA	102-QCOG	2nd W	7:00pm	CONFIRM	319-386-3484
Apr 22	Davenport, IA	102-QCOG	4th M	7:00pm	CONFIRM	319-386-3484
Apr 9	Ames, IA	12-Midwest FOG	2nd Tu	7:00pm	(even months) IA State (old engineering annex) W. Lincoln Way	515-278-0292
Apr 9	Des Moines, IA	12-Midwest FOG	2nd Tu	7:00pm	(odd months) Yonker's Merle Hay, Second Floor	515-278-0292
Apr 11	Sioux City, IA	38-SOG	2nd Th	7:30pm	Western Iowa Tech., Room 508	712-252-2182
Apr 13	River Grove, IL	80-CFOG	2nd Sa	1:00pm	Liberal Arts Bldg, Triton College	312-654-0986
Apr 28	River Grove, IL	80-CFOG	last Su	1:00pm	Liberal Arts Bldg, Triton College	312-654-0986
Apr 3	Rockford, IL	84-GROG	1st W	7:00pm	CONFIRM	815-398-1280
Apr 4	W. Lafayette, IN	34-HOG	1st Th	7:00pm	CONFIRM	317-743-5275
Apr 8	Evansville, IN	46-E-OSBUG	2nd M	6:30pm	Oaklyn Branch Evansville Library, Oakhills & Lynch	812-479-5108
Apr 1	Bloomington, IN	87-IOU	1st M	7:30pm	Indiana Univ, Jordon Hall, Room 440	812-339-4754
Apr 23	Wichita, KS	21-OPEK	4th Tu	7:30pm	St. Paul's Methodist Church, 13th & Broadway	316-832-0447
Apr 20	Lexington, KY	32-KOG	3rd Sa	12:00n	213 Funkhouser Building, University of Kentucky	606-623-1884
Apr 13	Louisville, KY	64-PCC	2nd Sa	1:00pm	Univ. of Louisvile, Shelby Campus, Rm 202 Burhans Hall	502-423-0451
Apr 8	Baton Rouge, LA	103-FLOG	2nd M	7:00pm	Johnson Equipment Co., 4264 Perkins Road	504-292-1880
Apr 12	Lexington, MA	122-BOG	2nd F	7:30pm	Honeywell Electro Optical Div, Route 2A	617-469-2414
Apr 30	Bedford, MA	122-BOG	last Tu	7:30pm	Mitre Corp., Route 62	617-469-2414
Apr 15	Dearborn, MI	14-DeFOG	3rd M	7:30pm	Ford Tech Center Cafeteria, 1700 Rotunda Dr	313-422-0928
Apr 18	Ann Arbor, MI	37-TOGA[2]	3rd Th	7:00pm	Neuro Science Bldg. Univ. of MI, 1103 East Huron St	313-662-9026
Apr 11	St. Paul, MN	111-TCOG	2nd Th	7:00pm	Univ. of MN,St. Paul Campus Rm B-45 Classrm Off Bldg	612-871-6076
Apr 23	St. Louis, MO	55-SLOG	4th Tu	7:00pm	Thornhill Library, 12863 Willowyck	314-991-4399
Apr 23	Kansas City, MO	97-MIZOG	4th Tu	7:00pm	TWA Bldg, 13th & Baltimore	816-455-2824
Apr 1	Jackson, MS	58-MCPM	1st M	6:00pm	R & D Center, 3825 Ridgewood Rd,, 5th Fl Conf Rm.	601-366-0928
Apr 15	Raleigh, NC	8-ROCC	3rd M	7:30pm	CONFIRM — Dreyfus Aud., Research Triangle Inst.	919-782-9576
Apr 8	Charlotte, NC	71-LOGIC	2nd M	7:30pm	CONFIRM	704-377-1154
Apr 22	High Point, NC	107-TROGIC	4th M	7:30pm	(odd months) High Point College, Science Building, Basement	704-246-5929
Apr 25	High Point, NC	107-TROGIC	4th Th	7:30pm	(even months) High Point College, Science Building, Basement	704-246-5929
Apr 18	Fargo, ND	117-O/KUG	3rd Th	7:00pm	NDSU, Civil Engineering, Room 216	701-232-5722
Apr 9	Lincoln, NE	39-Lincoln LOG	2nd Tu	7:30pm	Smith Curtis Bldg., NE Wesleyan Univ., 52nd & St. Paul	402-786-2965
Apr 9	Albuquerque, NM	127-AOG	2nd Tu	7:00pm	CONFIRM	505-268-3606
Apr 25	Albuquerque, NM	127-AOG	last Th	7:00pm	CONFIRM	505-268-3606
Apr 17	Las Vegas, NV	25-VOG	3rd W	6:00pm	Las Vegas Library, 1726 East Charleston	702-452-2544
Apr 2	New York, NY	135-NYOUG	1st Tu	6:00pm	73 Franklin Street	212-594-5976
Apr 7	Syracuse, NY	82-SOUP	1st Su	1:00pm	Location Varies — Confirm	315-471-1405
Apr 10	W. Hempstead, NY	88-LION	2nd W	7:30pm	Adelphi Univ Cont Ed Ctr, Room 110, Eagle Ave	516-481-0129
Apr 10	Ithaca, NY	101-FLOG	2nd W	7:30pm	Cornell Univ, 694 Uris Hall	607-257-2030

Continued next page

Date	City	A.M.O.	Day	Time	Meeting Address	Contact No.
Apr 9	Rochester, NY	132-FROG	2nd Tu	7:30pm	Monroe County Cooperative Ext. Center, 249 Highland Avenue	716-385-3456
Apr 10	Tarrytown, NY	104-WOG	2nd W	7:00pm	Tarrytown Public Library, N. Broadway	914-747-2110
Apr 1	Oberlin, OH	9-^Ob^Os	1st M	7:30pm	Rice Faculty Lounge, Oberlin College	216-775-8706
Apr 8	Canton, OH	44-AKCAN	2nd M	6:30pm	5850 Fullton Road NW	216-837-8926
Apr 10	Cleveland, OH	75-COG	2nd W	7:00pm	United Way, 3100 Euclid Avenue	216-871-2532
Apr 16	Cincinnati, OH	27-COG	3rd Tu	7:00pm	Central Trust Center 6th floor, 5th & Main Streets	513-232-4076
Apr 2	Oakwood, OH	79-DOUG	1st Tu	7:30pm	St. Paul's Episcopal Church, Dixon Ave.	513-837-5651
Apr 10	Oklahoma City, OK	67-OKLOG	2nd W	7:00pm	Southwestern Bell, 111 Dean A McGee, Blue & Gold Rm	405-843-5925
Apr 3	Enid, OK	77-FOG/E	1st W	5:30pm	706 W. Maine	405-489-2228
Apr 18	Tulsa, OK	51-OUT	3rd Th	7:00pm	Micro Systems, 2010 South 68th East Ave	918-834-9600
Apr 11	Medford, OR	54-RVOG	2nd Th	7:30pm	33 No. Central #306	503-482-8646
Apr 24	Portland, OR	57-PMS	4th W	7:00pm	Bonneville Power Admin. Aud.	503-642-9692
Apr 7	Eugene, OR	128-LOCUG	1st Su	7:00pm	Farwest Federal Bldg., 96 E. Broadway	503-747-8242
Apr 13	Philadelphia, PA	121-PHROG	2nd Sa	9:30am	Merck, Sharp & Dome, Sumneytown Pike	215-648-5862
Apr 28	Pittsburgh, PA	50-TROG	4th Su	2:30pm	Mellon Science Building, Duquesne Univ.	412-456-3946
Apr 25	Lancaster, PA	74-LOG	last Th	7:30pm	Fire Protection Sys, 1873 Lincoln Hwy East	717-898-8929
Apr 18	Lemoyne, PA	92-MIDPOG	3rd Th	7:30pm	One Stop Computer, 65 N. 5th St	717-732-2937
Apr 23	Greenville, SC	41-POGO	4th Tu	6:30pm	C. Douglas Wilson, 201 E. North Street	803-233-3434
Apr 4	Nashville, TN	119-MidTOG	1st Th	6:30pm	1228 16th Avenue So.	615-327-1715
Apr 9	Memphis, TN	15-MOG	2nd Tu	7:00pm	34th Fl., Clark Bldg., Federal Express Conf. Rm	901-767-2350
Apr 17	Oak Ridge, TN	13-SMOG	3rd W	7:30pm	ECS 136 Fairbanks (OR 11505 Kingston Pike, Knoxville)	615-482-7919
Apr 18	College Station, TX	43-AGGNOG	3rd Th	5:30pm	A & A Building, Texas A & M Univ. Room 503	409-845-7774
Apr 17	Austin, TX	7-AEIOU	3rd W	6:30pm	Old Quarry Library off Far West Blvd.	512-836-3010
Apr 19	Houston, TX	76-OUCH	3rd F	7:30pm	Univ. Houston, 101 Farish Hall, KIVA Rm. (Use lot 13A off Cullen)	713-688-8149
Apr 13	Houston, TX	108-CLOG	2nd Sa	9:00am	Gilruth Rec. Center, Johnson Space Center	713-486-5091
Apr 14	Amarillo, TX	28-POG	2nd Su	2:30pm	Downtown Branch Amarillo Public Library	806-355-7509
Apr 28	Amarillo, TX	28-POG	4th Su	2:30pm	Downtown Branch Amarillo Public Library	806-355-7509
Apr 18	Lubbock, TX	134-LOG	3rd Th	7:30pm	Texas Tech Univ. Law School, 19th & Hartford	806-747-0760
Apr 18	Provo, UT	30-KAOS	3rd Th	8:00pm	Wiltec Research Co. 488 South 500 West	801-225-8293
Apr 18	Salt Lake City, UT	105-SMOG	3rd Th	6:00pm	Master Mind Computers, 448 S. 400 E	801-268-2831
Apr 18	Richmond, VA	52-CVOG	3rd Th	7:00pm	Red Cross Bldg, 4th and Main	804-320-7775
Apr 20	Norfolk, VA	78-TOG	3rd Sa	9:00am	ECPI, 3661 East Virginia Beach	804-495-1596
Apr 18	St. Croix, VI	70-StCOUG	3rd Th	7:30pm	College of the Virgin Islands	809-773-7551
Apr 1	Tacoma, WA	72-TOG	1st M	7:00pm	Pierce Co. Library (Basement Mtg Rm) 404 Garfield So.	206-752-5582
Apr 17	Midway, WA	99-SKOG	3rd W	7:30pm	Highline Comm. Coll, Gold Rm — Bldg 4	206-643-3521
Apr 15	East Wenatchee, WA	10-WOG	3rd M	7:00pm	211 Ridgemont Drive	509-884-3279
Apr 11	Richland, WA	19-TROG	2nd Th	7:00pm	Richmond Public Library, Swift & Northgate	509-627-0950
Apr 10	Spokane, WA	123-SMUG	2nd W	7:00pm	Westminister Congregational Church, 4th & Washington	509-482-7989
Apr 1	Milwaukee, WI	22-MilwOG	1st M	7:00pm	Math Bldg. Rm E180, Univ. of W. M.	414-691-4241
Apr 2	Madison, WI	129-MOO	1st Tu	7:00pm	1210 West Dayton Rm B-214	608-233-0453
Apr 2	Superior, WI	118-DSO	each Tu	7:30pm	915 Lincoln Street	715-394-6629
Apr 9	Superior, WI	118-DSO	each Tu	7:30pm	915 Lincoln Street	715-394-6629
Apr 16	Superior, WI	118-DSO	each Tu	7:30pm	915 Lincoln Street	715-394-6629
Apr 23	Superior, WI	118-DSO	each Tu	7:30pm	915 Lincoln Street	715-394-6629
Apr 30	Superior, WI	118-DSO	each Tu	7:30pm	915 Lincoln Street	715-394-6629
Apr 17	Dunbar, WV	59-Valley FOG	3rd W	6:30pm	Dunbar Public Library	304-442-4487
Apr 28	Victoria, Aust	131-VOUG	4th Su	10:00am	(odd months)Victoria St Coll, Lecture Theater K, Burnwood Rd	818-5062
Apr 24	Melbourne, Aust	131-VOUG	4th W	6:30pm	(even months) RMIT, Swanson St., Bldg. 12, Rm 908	818-5062
Apr 8	Edmonton, Alta	45-KOG	2nd M	7:30pm	Alberta Vocational College, 10215 - 108 Street	403-459-0416
Apr 8	Calgary, Alta	94-COUG	2nd M	7:30pm	931 - 32nd Ave NE	403-297-6281
Apr 10	Vancouver, B.C.	17-VPCC	2nd W	7:30pm	Hastings Community Center, 3096 East Hastings	604-298-6990
Apr 16	Victoria, B.C.	48-VIOG	3rd Tu	7:00pm	University of Victoria, Clearihue Bldg.	604-474-1750

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Date	City	A.M.O.	Day	Time	Meeting Address	Contact No.
Apr 29	Toronto, Ont	120-OS-TOC	last M	7:00pm	Parkdale Public Library, 1303 Queen St. W.	416-977-9925
Apr 9	London, Ont	95-LOG	2nd Tu	7:30pm	Elborn College, Room 2116	519-434-4842
Apr 4	Westmount, P.Q.	73-Microcozm	1st Th	6:45pm	Hillside Armoury, 3 Hillside Lane	514-849-7761
Call	Charlottenlund, Denmark	126-FORMICRO	????	5:00pm	CONFIRM	45-1-631760
Apr 8	Paris, France	110-OUF	2nd M	6:30pm	Centre Malraux, 78 Bd Raspail	1-544-6216
Apr 29	Hong Kong	116-HONG KOG	last M	6:30pm	CONFIRM	852-5-8171714
Call	Jakarta, Indonesia	85-JOG	????		By arrangement only — CONFIRM	021-333-880
Apr 9	Auckland, New Zealand	53-NZOG	2nd Tu	8:00pm	Auckland University, Human Sciences Building	649-659-738
Apr 3	Wellington, New Zealand	109-CROG	1st W	7:30pm	Compusales,75-77 Ghuznee St.	0064-4-791-172
Apr 4	Dhahran, Saudi Arabia	33-DPoG	1st Th	10:00am	ARAMCO Mgmt Training Center	874-4798
Apr 17	Johannesburg, So Africa	90-JOG	3rd W	5:30pm	Bank of Lisbon Bldg. 19th Floor	011-51-6304
Apr 1	Capetown, South Africa	96-COGSA	1st M	7:30pm	Meladata Solutions, Strand 55	021-75-5675
Apr 13	Bangkok, Thailand	36-CP/M BUG	2nd Sa	1:00pm	Action Compters 5126 Saladaeng Road, Silom	391-0963 x86
Apr 17	Kaiserslautern, W. Ger.	62-FROG	3rd W	7:00pm	Vogelweh Recreation	49-6371-52364
Call	Schweinfurt, W. Ger.	112-SWOG	????		CONFIRM	09721-68064
Apr 1	Wiesbaden, W. Ger.	24-AGOG	1st M	7:00pm	Lindsey Air Station, Bld. A-24 Rm. 301	069-69-3218

FOG FONES

A Listing of the FOG RBBS-RCP/M Systems

System ID	Phone number	Location	Size	Baud rate	When in operation	Notes
FOG #1	(415) 755-2030	FOG Office	47Mb	300/1200	24 hrs/seven days	
FOG #2	(604) 596-0314	Vancouver, BC	33Mb	300/1200	24 hrs/seven days	
FOG #3	(415) 992-8542	Daly City, CA	47Mb	300/1200	24 hrs/seven days	
FOG #4	(415) 591-6259	Belmont, CA	10Mb	300/1200	24 hrs/seven days	
FOG #5	(415) 424-1482	Palo Alto, CA	10Mb	300/1200	24 hrs/seven days	
FOG #6 (Library)	(415) 755-8315	FOG Office	10Mb	300/1200	24 hrs/seven days	Uploads Only
FOG #10	(717) 657-8699	Harrisburg, PA	10Mb	300/1200	24 hrs/seven days	temporary #
FOG #11 (KAY*FOG)	(415) 285-2687	San Francisco, CA	10Mb	300/1200	24 hrs/seven days	
FOG #12	(415) 851-7732	Woodside, CA	360K	300/1200	24 hrs/seven days	
FOG #13	(405) 848-5317	Oklahoma City, OK	10Mb	300/1200	24 hrs/seven days	
FOG #14	(217) 344-4032	Urbana, IL	20Mb	300/1200	24 hrs/seven days	
FOG #15	coming soon	Cypress, CA	360K	300	3pm - 8am weekdays	
FOG #16	(818) 988-0258	Van Nuys, CA	11Mb	300/1200	24 hrs/seven days	
FOG #17	(602) 268-4474	Phoenix, AZ	10Mb	300/1200	24 hrs/except Mon	
FOG #18	(707) 557-4403	Vallejo, CA	360K	300/1200	24 hrs/seven days	
FOG #19	(818) 362-3690	Sylmar, CA	360K	300/1200	6pm - 9am weekdays	
FOG #20	(813) 788-6515	Zephyrhills, FL	360K	300/1200	7am - 5pm/M - F; 24hrs/S - S	
FOG #21	(908) 615274	Milton Keynes, England	10Mb	300/multi	24 hrs/seven days	
FOG #22	(817) 662-2487	Waco, TX	10Mb	300	6pm -6am/M-F; 24hrs/S-S	
FOG #23	coming soon	Nashville, TN	10 Mb	300	5pm - 9am/seven days	
FOG #24 (Land of OSZ)	(502) 241-4109	Louisville, KY	360K	300	7pm - 7am/M - F; 24hrs/S - S	
FOG #25	(319) 326-3904	Davenport, IA	360K	300/1200	24hrs/seven days	
FOG #26	(313) 792-7169	Mt. Clemens, MI	360K	300	24hrs/seven days	
FOG #27	coming soon	Athens, GA	10Mb	300/1200	24hrs/seven days	
FOG #28	coming soon	So. Portland, ME	11Mb	300/1200	24hrs/seven days	
FOG #29	617-265-2399	Boston, MA	550K	300	5pm - 9am/M-F; 24hrs/S-S	
FOG #30	coming soon	Huntington Beach, CA	44Mb	300/1200	24hrs/seven days	

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Statistics, Osborne 1 and JRT Pascal

by Author Unknown

I take the sadistics out of statistics for my economics majors by carrying an Osborne 1 right into my classroom at Wesleyan University, Middletown, Ct. Students observe output on two oversized video monitors driven by the video output jack. And although it is only a 64K machine, The Osborne 1 executes involved statistical calculations right in front of the class. Once they have observed programs in action in the classroom, students find it easy to execute lab assignments and research projects on PC's in our Data Laboratory.

The Osborne 1 expeditiously tabulates frequency distributions, computes means and standard deviations, and executes multiple regressions on data loaded from tables stored on a floppy disk with Supercalc. Here is an example of regression output explaining miles per gallon obtained in Consumer Report test runs on a sample of 46 cars in terms of the weight of the vehicle, standard versus automatic transmission, and gas or diesel engine.

```
REGRESSION OUTPUT: Auto-mileage          Degrees of Freedom: 42
Adjusted-R-Square: 0.74
Standard Error of Estimate, adj:          2.42
Sum of Deviations Squared:               246.84
Variable      Regression   Standard    t-statistic        Standard
              Coefficient  Error          Mean            Deviation
Weight            -0.006     0.001     -6.50   2488.04      444.23
stan/auto         -3.752     0.795     -4.72      0.50        0.51
G/D                6.258     1.463      4.28      0.07        0.25
Intercept         43.600     2.130                20.47
AveGAL     Dependent variable                     27.52        4.74

AveGAL = 43.600 -0.006 Weight -3.752 stan/auto + 6.258 G/D + e
```

The bottom line, the regression equation, predicts MPG realized in Consumer Report 15,000 mile test runs, more accurately than the EPA mileage sticker posted on new cars; the equation suggests that on the average an automatic transmission costs 3.75 MPG.

In 1966 Longley reported, in the Journal of the American Statistical Association, that his test runs revealed that canned programs commonly employed on mainframe computers frequently yielded quite inaccurate results on a test data set he developed. The 64k Osborne 1 processes Longley's test data with greater precision than was achieved on most mainframes two decades ago. And it is capable of running regressions with a large number of explanatory variables and more than 30,000 observations.

It was necessary to develop appropriate statistical programs in order to bring the Osborne 1 to the classroom. WordStar, SpellGuard and WordPac's indexing program eased the task of writing the USER GUIDE. And while my previous programming experience had been primarily in FORTRAN, with a touch of ALGOL and BASIC, I decided to learn PASCAL; and I found the JRT Pascal implementation excellent for my purposes.

Students in my statistics class do their calculations in a Data Lab equipped with Dec Rainbows rather than Osborne 1s. While the Rainbow packs much more on a disk than my double density Osborne 1, it is not easy to SETUP the function keys; and my word processor runs more efficiently on the Osborne 1 than on the Rainbow; further, neither my spreadsheet nor my word processor effectively exploit the Rainbow's larger memory. But fortunately, all my JRT Pascal programs proved transportable to the Rainbow, using UNIFORM; it was not even necessary to recompile.

JRT Pascal is excellent for very large programs (my regression program involves about 90K of Pascal code) because the EXEC program automatically loads external subroutines when needed and purges them when memory becomes tight; also, the intermediate code generated by the JRT compiler is condensed to only about 70% of the disk space occupied by the original Pascal code. Hence my final program and the required JRT runtime files all fit on a single disk along with command and demonstration files; thus the other drive is free for handling data files and storing output for subsequent incorporation in documents and research reports.

Programming JRT Pascal is not as tedious as is sometimes reported. After entering the code for a NEW.PAS program of moderate size using WordStar's non-document option, one can proceed directly with the R option to the compilation and execution stages with setup keys set for "JRTPAS3 NEW $E" and "EXEC NEW"; when the inevitable programing bugs are encountered, they can be corrected expeditiously when control reverts to WordStar. For larger programs, space constraints make it necessary to exit from WordStar before compilation and then re-enter WordStar to make corrections. And compiling still larger programs may require that even more memory be squeezed out of the Osborne 1 by compiling while using the old single density version of CP/M. One single density disk will hold all the JRT files required for compilation, which can be on drive A; place on drive B the files to be worked on; get on to drive B and then compile your program; you will just have room on your B disk for minimal WS plus your program files. While JRT Pascal is fairly well documented with error messages, there are a few tedious programming errors I found difficult to spot: writing "rho:4;2" instead of "rho:4:2" in a print statement did not faze the compiler but at run time the screen suddenly degenerated into garbage.

Here is an example of an extremely simple Pascal program for calculating Binomial Probabilities (What is the probability that a student will miss one out of five questions on a true/false exam? What is the probability that a machine which generally produces 10% defective parts will produce only two good parts in a run of four?). The Mainline Program types out a simple menu on the screen and reads the user's response; the Case Command activates the appropriate option: turning on the printer, calling the B(k,n,pi) external subroutine to do the actual computations, or exiting from the program.

```
Program BINOMIAL; {ver 11/24/84}
        var     pi : real;
```

```
                k, n, : integer;
                printit : boolean;
                Command : array[1..2] of char;
        PROCEDURE B(k,n: integer; pi : real); EXTERN;

BEGIN   {***MAINLINE PROGRAM***}
        writeln('Welcome to Bernoulli');
        Command := ' ';
        Printit := false;
 WHILE( not (Command = 'X') ) do begin
        writeln;
        writeln('Specify Option: ');
        writeln('    BI for Binomial');
        write('    PR to toggle printer: ');
        If printit then writeln('ON') else writeln('OFF');
        writeln('    X to exit from program');
        read(Command);
        writeln;
        Command := upcase(Command);
   CASE Command of
    'BI' : BEGIN
         writeln('Enter number of successes, number of
         trials,',
               ' and probability of a success;');
         write('     i.e.,Bernoulli(k,n,pi); e.g., 7, 20,
         0.75): ');
         readln(k,n,pi);  {READS PROBLEM PARAMETERS}
         B(k,n,pi);       {CALLS THE EXTERNAL SUBROUTINE}
         writeln;
        END;
     'PR' : Printit := not printit;   {TOGGLES PRINTER BOOLEAN}
    ELSE : if Command <> 'X ' then writeln('Command not
    recognized');
  END;
 END;
END .
```

The following B(k,n,pi) external procedure is compiled independently and stored in a separate file; when JRT's EXEC is invoked to run the Binomial program it will be loaded into memory automatically.

```
EXTERN {binomial subroutines - 11/27/84}
        var     pi : real;
                k, n, : integer;
                printit : boolean;
                command : array[1..2] of char;

PROCEDURE B(k,n: integer; pi : real);
        var     bp : real;

   Function BERNOU(k,n: integer; pi : real) : real;
        {K must be >= N-K}
        var     bp, npi : real;
                I : integer;
        BEGIN   {***THE NEXT 7 LINES DO ALL THE WORK***}
                npi := 1.0 - pi;
                bp := 1.0;
                For I := 1 to K do begin
                                        bp := bp * pi * (N-
                                        I+1)/I;
                                        if I <= N-K then bp :=
                                        bp*npi;
                End;
                BERNOU := 100.0*bp;
   END;  {END OF BERNOU FUNCTION}

BEGIN
        If K > N-K then bp := BERNOU(k,n, pi)
                else bp := BERNOU( n-k, n, 1.0-pi);
        bp := bp + 0.005;
        if printit then system( list);  {Turns on printer}
        writeln('PROB( ',k,' successes in',n,
                ' trials with pi =',pi,' ) =',bp:6:2,'%');
        system( nolist );
END; .
```

Inside the B(k,n,pi) external procedure is a function that executes the actual computations. Since the formula to be solved is of the form $n!(k!(n-k)!p^{k}(1-p)^{(1-k)}$ it is tempting to write a factorial function to calculate factorials (e.g., 4! = 4 x 3 x 2 x 1); however, such a strategy would cause integer overflow in all but the smallest problems. The coding in the Bernoulli function avoids excessively large integers.

This Bernoulli program is extremely simple; my statistics students work with an enriched version with additional case command options and corresponding procedures for computing normal, t, chi-square, and F distribution probabilities. The transparent nature of the Pascal programming language eases the development of a rich vocabulary of data processing options.

* * * * * * * *

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We have in stock a variety of cables at excellent prices. In addition to our standard cables, we can provide just about any custom cable you might want.

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GAMES PAK $30

Previously three separate packages—now includes nine games with two simultaneous two-player action games. (Osborne 01)

dBOOK $25

Actually, de book is the classic dBASIC II USER'S GUIDE by Adam Green. Contains many essential hints and techniques for making effective use of dBASE II.

Now available—dBOOK II is the Advanced User Guide.

MEDIA MASTER $29

OSBORNE ⟷ IBM
OSBORNE ⟷ OTHER CP/M
OSBORNE ⟷ TRS 80

This is the cheapest and best of the programs to transfer files between the OSBORNE-01 (Or Executive) and another alien system. You can format, read, and write a staggering variety of alien-type disks. Yes, this does exactly what you're hoping it will do. You can move programs and data from one computer to another "disk-to-disk" with no restrictions. Data-files and textfiles are 100% compatible from computer to computer. Programs will move across, but will only run if the two computers use the same operating system (CP/M or MS-DOS). Since most 'alien' disk formats are double density, you will need a double density Osborne in order to run this program.

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DISKAIDE $45

This programmer's tool lets you examine and change any byte in any file of any kind. Because it is record and field-oriented it is particularly well suited to database debugging. Runs from within MBASIC.

OSBAUD $50

Speeds up your serial port like crazy! You'll get a switch-selectable choice of 16 different rock-steady crystal-controlled baud rates from 110 baud all the way up to 19,200 baud. Installation requires making four soldered connections and cutting one trace.

OSDEX $9

This is the comprehensive cross-index to the Osborne-01 blue manual that should have come with your computer in the first place (but didn't). With this index you can instantly find that information you always suspected was in there somewhere. You need this!

OSBOARD $29

An exciting full-screen graphics editor for the Osborne, including printer drivers to copy the picture on screen to most printers.

OSGRAPH $34

Lets you create bar charts, pie charts, and scatter plots on screen and on the printer. Can take input from keyboard or from files.

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Makes sequenced electronic "slide shows" on-screen, with many special effects. This will be included FREE if you buy both OSBOARD and OSGRAPH (described above).

KEYBOARD OVERLAYS $17 ea.

These plastic overlays live on your OS-1 or Executive keyboard and provide a handy reference source for the hundreds of software commands you need to use. They are available for WordStar, Supercalc, dBASE II, and MBASIC. If you have an older (tan) machine they'll also keep your hands warm! You need to tell us whether you have an older tan case or a newer blue case.

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This monitor adaptor allows your old 52-column Osborne to drive any standard external monitor. Excellent quality.

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TWO WEEK MONEY-BACK GUARANTEE

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HARDWARE REVIEWS

The OZ With the 780K Disk Drives

by Jerry Boyce

An ad in the October issue of the ***FOGHORN*** hit me just at the time that I was debating the purchase of a hard disk for my OZZIE [Osborne 1]. So after several phone conversations with Doug Griswold at G2 Systems Design of Fort Worth, TX, I sent him my $999 and, about one week later, received the two 780K drives, the Digital Double Density replacement board, the OZROM and the software to make them work. They were installed the next day, and I have been transferring programs and files since then.

There are several programs in the software package that add a lot of functions to the OZ that were not available before. The number of function keys is increased to 14 and another program allows you to set up 8 additional sets of function keys that may be called up at anytime. The OZROM has such functions built in as clear screen, print screen, and a time clock. The clock is not a true clock as it must be reset each time that you do a cold boot but is not affected by a warm boot. There are other programs included which I have not had time to try as yet.

I have had no problems reading any of my single and double density disks or running any of my programs. I have use DISK76C to make all of the transfers from my disks and the DISK76C transfers file in both directions with no problems. The software included permits you to read/write/format 12 different disks other than Osborne. The major problem so far has been determining how to set up my disks and what should be on each disk.

There does not appear to be any necessity to purchase the 96 tpi disks as I have not had a problem using the DS/DD disks that I had been using for some time. I started using the DS/DD disks some time ago when I converted to flippies. There was less than $5 difference per box between the SS/DD and the DS/DD disks.

The documentation for the installation is very complete and no one should have any problem installing the drives. As stated in the ad, no soldering is required however if you have not opened up your OZ, I do suggest that you get someone to help.

Based on my approximately 2 weeks of use with no problems, I recommend that you consider this upgrade. This is quite a step up from the original 90K per disk that was on the OZ when it was purchased.

* * * * * * *

The Olivetti Praxis 35 Typewriter with Selectone Interface

by Frederick Klarmeyer

I bought the Olivetti Praxis 35 typewriter [and Selectone, serial interface] to use as a typewriter and a letter quality computer printer. The typewriter had the features I wanted: 10, 12 and 15 characters per inch selected by a switch, internal interface, and changeable type faces (30 different daisywheel styles are available).

The outward appearance of the Olivetti is attractive and the typewriter is loaded with features: three different pitch selections (switch selectable), changeable daisywheels (expensive, $30 each), interchangeable ribbon cartridges (carbon & fabric), correction ribbon (lift-off & cover-up) with automatic or manual correction (10 character memory), keyboard selector (multi-lingual), and scales to indicate print unit position. The typewriter did appear to be rather fragile; thin plastic construction, even the carrying case.

Overall I'm satisfied with the combination, typewriter and interface. I'm not too concerned about the slow speed, advertised 10 char/sec. Speed wasn't to important to me since I own an EPSON MX-80 F/T that I use for high speed computer program output. I tested the actual speed of printing by sending the following sentence to the printer: "This is a speed test of the Olivetti Praxis 35 using Selectone interface." It took 10.43 seconds; a speed of (73/10.43) 7 characters per second.

I opted to buy the serial interface, from Selectone. A parallel interface is available. Additionally, I purchased the serial cable and connector configured for the Osborne 1. The installation instructions are complete and installation is fairly simple, but does require intricate soldering. Unless you have some soldering experience, I do not recommend you get the experience from installing this board, but instead buy the system complete (typewriter with interface) from Selectone. My previous soldering experience was obtained from assembling several Heathkit circuit boards. Heathkit supplied me with detailed soldering instructions and included a low wattage soldering iron.

The installation involves soldering two flat cable connectors, each with 13 tabs. After the connector is in place, the interface board can be easily plugged and unplugged from the main logic board of the Olivetti. The interface electronically emulates the depression of a keyboard key. This enables the typewriter to be used conventionally when the computer isn't sending signals to the interface.

The installation took about 3 hours and involved: reading the installation manual, checking switch positions on the interface, disassembling the typewriter, soldering the connectors, installing the interface, routing the cable, checking manual operation, and then reassembly. I tested the Olivetti's operation by toggling the printer (Ctrl P) and entering XDIR. It

worked perfectly. I printed several letters without any difficulty. I did encounter a problem when I used continuous forms. I didn't get the proper pagination. Since the typewriter doesn't support form feeds (FF code), multiple carriage returns with line feeds, combined (CRLF), are sent. For short letters, where the text uses only about 40 of the 66 line to a page, the next page didn't make it to the top of form. Typing began on the bottom of the previous page! Apparently some of the CRLF were lost.

This occurs only during pagination (multiple CRLF) or when multiple single characters are printed on the left margin. I tested this by creating a file with only single characters on the left margin and using 0 for the page offset. The first nine characters printed OK, thereafter characters were lost. I then incremented the page offset until no characters would be lost. This occurred at offset 5 (i.e. .PO 5 dot command). I decided to ignore the problem, but just before the warranty ran out, I called Selectone's toll free number for technical help, (800) 227-0376 from Maine, to ask about the problem. I talked to Mr. Jerry Medina of Selectone Corporation, and he suggested I patch more nulls in the PSCRLF: function of WordStar. I tried that and it didn't help any so he suggested I return the interface for tuning. It took over a month to get the interface back. My initial test failed again, but when I patched a '0Ah' in location 0696h (PSCRLF:) instead of 02h, it no longer lost the CRLF.

The documentation was good; I didn't have any questions about its operation. I may have had some problems installing it for the Osborne 1 had I not ordered the cable setup for it. Selectone's application note included with the cable, described the baud rate setting, 1200 Baud, and wire connections to the different pins.

Overall I'm very satisfied with the system. The product is excellent.

* * * * * * *

Have a Contribution?

Please refer to page 2 for information about submitting material to the ***FOGHORN*** or to the disk library.

* * * * * * *

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ExtraCalc-1 TM

ExtraCalc-1 is a matrix operations software that employs SuperCalc as an I/O routine. It augments SuperCalc with operations of: addition, subtraction and multiplication of matrices; solution of systems of linear equations; reflection, transposition, inversion and computation of eigenvalues/vectors & determinants. Because ExtraCalc is NOT a *template* but system of .COM files, it works with matrix of ANY size without demand on worksheet memory. EXAMPLES of operations and BUSINESS applications such as Trend Analysis/Forecasting are given in a concise MANUAL To order, specify computer and density(CP/M systems with SuperCalc v1.12 and up)& send $79.95 (or $9.95=manual): SMIRNOV ASSOCIATES®, 21 Lewis Street, Newton, MA 02158

TRADEMARKS: CP/M - Digital Research, SuperCalc - Sorcim, ExtraCalc-1 - Smirnov Associates (pending).

CANAM Anti-Glare Screen

by Robert Van Allen

As a DP manager for a business, I make many purchases for our Computer Department and must keep cost down. Many times our company receives catalogs, direct mailings, and business reply cards on computer related items. One of my considerations a few months ago was that some of our data entry personnel were complaining of glare on the CRT's. Out came the catalogs and related information. Anti-glare screens seem to be priced from about $35.00 for the black mesh type screen to $150.00 for the ones that have some kind of lead coating for nuclear attacks.

CANAM Associates, Inc., P.O. Box 7561, 7387 Davie Road Extention, Hollywood, FL 33021, had an "Example Sample" that they would send out in the mail as a test piece to try on your CRTs. Looking at the advertisement, the "Example Sample" looked as if it would fit the internal screen of the Osborne 1. Sure enough, after requesting one, it fit like a glove. At the time, I thought it would be a cheap way to get an anti-glare screen for my internal monitor inside Oz. You don't know the value of anti-glare screens until you use one. What a difference if only on a small scale.

The inclosed paperwork with the "Example sample" stated until the end of January 1985, a full sized screen would be $25.00 for monochrome and $30.00 for color. After checking many sources, the price was the lowest, so I purchased one for my home unit to test, a Zenith 121. Time of delivery took about 5 weeks and arrived by US Mail. The Postman had to do some cramming into our mailbox, but no damage was done.

The screen is the black mesh type and is held in place by four Velcro strips so that the unit may be detached for cleaning. The frame is made of black plastic and the mesh is attached to the back by a method that looks as if with a hot melt glue gun. Although this may sound like poor quality, I find that it does work well.

I have contacted Mr. Hy Pomerantz, President of CANAM, regarding his product and found the company responsive to suggestions, ideas, and customer support.

My overall review of this product is, if the prices are at the same rate or lower, you will find this to be a good addition to your computer equipment. The quality level is quite adequate for most users and CANAM Associates seem to want to make you satisfied if your not pleased. The screen comes with a mesh cleaning cloth, an extra cost with some other brands. The 5 inch "Example Sample" does cut of 1/8 inch on the edges from the internal screen, if any of you folks are still using only the small screen. I broke down and purchased a 12 inch monitor when I needed glasses after using the internal screen for a year.

Robert is a member of MID-POG (Mid-Pennsylvania Osborne Group), an Affiliated Member Organization. For information on the group's meetings see the listing in the ***CALENDAR*** *section in the center of this issue.*

* * * * * * *

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Complete Business Graphics Toolkit™

NEED GRAPHICS? You don't need a new computer. You need REMBRANDT. The software package that unleashes all the graphics power built into your Osborne® computer.

Now the REMBRANDT Complete Business Graphics Toolkit gives you three easy-to-use tools that allow even the most inexperienced user to quickly master Osborne graphics.

For three years, DG/System's graphics software has been the "standard" by which others are judged. Now, the introduction of the **REMBRANDT** Business Graphics Toolkit raises that standard.

Our best-selling OSBOARD, OSGRAPH and OSBRIEF programs are completely rewritten, loaded with new features, and combined into the most powerful and easy-to-use presentation graphics package ever available for Osborne computers.

Take a look at the list of new features and improvements. If you're already using our graphics products, check out our liberal upgrade policy. You'll agree — the best just got better!

IMPORTANT UPGRADE ANNOUNCEMENT

OSBOARD, OSGRAPH and OSBRIEF are no longer available separately. If you own these programs, you can upgrade to the new **REMBRANDT** package at reduced cost as follows:

Just return the original OSGRAPH distribution disks to us for $30 credit towards **REMBRANDT**. The original OSBOARD disks are worth $20 credit. So, if you own both OSBOARD and OSGRAPH, you can upgrade to **REMBRANDT** for only $29.95 (that's $79.95 with $50 credit for returned OSBOARD and OSGRAPH disks; no credit is given for OSBRIEF). Remember — to take advantage of this special upgrade offer, you must return the original disks to us with your order.

Presentation graphics are fast and easy with absolutely no programming required!

OSGRAPH™ enables quick and easy creation of business graphics including horizontal and vertical bar charts, pie charts and xy plots (scattergraphs) —OSGRAPH uses hand entered data or reads numerical data from just about any source including dBase II, SuperCalc, Mbasic and Wordstar files.

OSBOARD™ is the full-screen graphics editor for your Osborne computer. Create graphic screens, save and recall them to and from disk. Layout forms, design logos, draw diagrams and pictures. It's easy and fun to use!

OSBRIEF™ produces electronic on-screen "slide show" presentations with absolutely no programming required! OSGRAPH and OSBOARD files are easily sequenced using eleven "cinematic" special effects!

REMBRANDT is complete with a fully-indexed 80-page typeset manual in a custom IBM-style binder. And new printer routines are included so your masterpieces can be reproduced on most popular dot-matrix and daisy-wheel printers.

The **REMBRANDT** Complete Business Graphics Toolkit costs just $79.95. Current owners of OSBOARD, OSGRAPH and OSBRIEF can upgrade to **REMBRANDT** at special savings. See details elsewhere in this ad.

New features include:

- Full integration with Wordstar! Insert graphics anywhere in your Wordstar text.
- Automatic line, circle and box drawing modes.
- User selectable decimal display on charts — gets rid of those "extra" zeros!
- "Giant" character mode —type with letters three times larger than normal!
- New alternate character set gives Executive users doubled graphics resolution.
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- Use up to three symbols in xy plots.
- Overlay one or more graphic files.
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- New easier-to-use menu operations throughout.
- Disk directory access from all programs.
- Complete with typeset and fully-indexed, 80-page illustrated manual in custom IBM-style binder.

REMBRANDT supports the following dot-matrix printers:

- Epson MX-80 or MX-100 w/Graftrax
- Epson RX-80, FX-80 and FX-100
- Okidata Microline 82A or 83A w/Okigraph
- Okidata Microline 92 and 93
- Texas Instruments TI-855
- IDS Prism 80 or 132
- IDS Microprism
- Gemini 10X and 15X
- C.Itoh 8510 Prowriter
- C.Itoh 1550, 8600B
- NEC PC-8023A-C
- Pacemark 2350 and 2410
- Apple Dot Matrix Printer

The following daisy-wheel printers are also supported:

All Diablo 630 compatibles including:

- Kaypro daisy-wheel printer
- C.Itoh Starwriter
- Brother HR-15
- Dynax DX-15
- Transtar 130
- Juki
- Qume Sprint 5
- Silver Reed 550
- Sanyo 5500
- DTC 380Z

REMBRANT is also available for graphics-equipped Kaypro computers.

Make your OSBORNE computer IBM-PC compatible for only $29.95!

Now available for the IBM-PC 75 formats just $39.95

READ, WRITE and FORMAT 25 different types of disks (including IBM PC-DOS/MS-DOS) with

Media Master™

Are you tired of trying to find your favorite software package in Osborne format? Would you like to use your Osborne generated Wordstar files, dBase II data and SuperCalc files on the IBM-PC at work (and vice-versa)? Do you want to trade public domain software with a friend who owns a Kaypro?

MEDIA MASTER
Questions and Answers

Q. What hardware configuration does MEDIA MASTER require?

A. MEDIA MASTER runs on a double-density Osborne-1 (either Osborne or Nuevo upgrade) or Executive computer. Other versions are available for the IBM-PC and compatibles, the Kaypro 2 and II (soon for the 4 and 10), the DEC Rainbow, and soon for the Zenith Z-100.

Q. Can I transfer programs from "foreign" computer formats and run them on my Osborne?

A. The answer is yes and no. In general, most "generic" 8-bit CP/M software will run just fine on your Osborne. There are tens of thousands of public domain programs and hundreds of excellent commercial programs in this category. Software that makes use of machine specific hardware (such as most graphics packages) or software that does not include an "install" program for different cursor control commands will probably require modification before use on your Osborne.

Unfortunately, you cannot run 16-bit, IBM software on Osborne 8-bit computers. Nothing short of new hardware can make this possible, but most data files transferred to or from "foreign" formats (even the 16 bit formats) are completely compatible. This means that Wordstar files, Lotus 1-2-3 files, dBase II data and command files, SuperCalc files and many other types of data files may be freely exchanged with other computers. For example, the same Wordstar file could be started on an IBM-PC running PC-DOS and finished on the Osborne using Wordstar under CP/M!

Q. Why are Apple, Commodore and Atari formats not included?

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SOFTWARE REVIEWS

The Random House ProofReader

by Barry Patterson

As others have said I don't know how I got along without the ***FOGHORN*** before this past year and now I figure it is my turn to share my thoughts on a very useful software package I use often — a spelling checker "The Random House ProofReader".

The ProofReader program is the best thing that ever happened to persons like me who went to school when phonetics was out and spelling was taught by sight leaving me unable to even spell my own name. My secretary says that after reading my drafts for several years, I have even ruined her spelling. The entire program takes 120K and therefore is not suitable for single density Osbornes. The version for DD Osbornes has a 32,000 word lexicon. A 50,000 word dictionary is available for larger capacity disks such as found on the new Osborne 4 VIXEN. An upgrade from the 32,000 word file to the 50,000 word dictionary is available for $20.00 from the source shown at the end of this article.

A word about the dictionary before I continue. The dictionary in ProofReader is a literal one. It checks against actual words including plurals and adverbs. It does not use word roots with added prefixes and suffixes which can result in some pretty strange words being judged correct by some spelling checkers. ProofReader ignores upper and lower case completely and will drop the "'s" in words used in the possessive. It has also eliminated some obscure words from the lexicon which are the same as some common typing mistakes.

ProofReader can be run from within WordStar by using the "R" option. This is the best way to operate the program because when you exit PR back to WS the file is ready to reformat or print. If you exit from your word processor and then boot PR be sure to hit ^C or else the program will give a "read only" error when saving the corrections. Running the program from within WS avoids this problem.

When PR loads you are shown a screen that first shows the file which is being read for checking. When the file has been read into memory the screen will give a total word count for the document. The program then sorts the words and tells you the number of unique words it found. This article has 1121 words, of which 404 are unique. You will notice that one or two page letters have a high percentage of unique words. The longer the file the fewer unique words; the result of prepositions and conjunctions (never a limited vocabulary). After the words in the document are sorted they are checked for spelling and the screen shows each letter of the alphabet being marked off as the checking proceeds — wxyz always goes extremely fast. PR then checks the user defined auxiliary dictionary and then shows you the number of unknown words.

After the number of unknown words is given PR displays the command menu on the screen. Of the six menu options I find that except for the exit from PR option I only use two of the six. These are review the unknown words to see if they are really misspelled and correct the misspellings. "Review" lists the words without context and allows you to quickly eliminate proper names and other words which are correct and would slow down proofing your work if shown in context under the "correct" option. One note, if you want to add a word to your auxiliary dictionary do not show it as correct during the "review" stage. Selecting the "correct" option begins the search by PR through the document for the unknown words. When PR finds an unknown word it displays it in context (the few words of context are sometimes not enough to recognize the word but is generally adequate) and gives you five choices for what to do with the word.

You can hit "C" for correct and type in the correctly spelled word. If the word is recognized as correct by PR it will continue to the next misspelled word. If you still did not spell the word correctly, PR will not recognize the word and gives you another chance to enter the word. This will repeat until you spell the word correctly or tell it to accept the word as spelled. If you do not know how to spell a word, hitting "D" will display the 20 words nearest to the word being corrected. Chances are that your word is one of the 20. However, if you have put in a wrong vowel at the beginning of a word, the words shown may not be anything like the one you are trying to spell. If the correct word is shown, you still have to type it in; you cannot enter it with a keystroke from the dictionary. This is only a minor inconvenience. If the word spotted by the checker is a unique word you will use often in your documents, you can tell the program to learn the word (add it to the auxiliary dictionary) by hitting an "L". If the word is spelled correctly but not one you commonly use, it can be accepted for the rest of your document but not added to the dictionary or if it is being misspelled deliberately, you can select to ignore the word this one time and any further misspellings later in the document will be shown to you for correction. One last little helpful feature is that PR can learn transposed letters in words you have already corrected in the document and if it encounters that word again in the document it will ask you if "hte" should be "the" and if you answer yes PR makes the correction without you typing it.

When you exit the document, if you have been in the "correct" mode, all of the changes will have been made to the file in drive B and you will be returned to WordStar with the document ready to print.

ProofReader is so easy to use that the menus and screen prompts are all that is necessary to use the program. However, the program comes with excellent documentation in the form of a 20 page booklet.

I bought my copy of the program from the originators — Aspen Software. But, they have been taken over by WANG Publishing who is distributing the software through Digital

Marketing Software, 2363 Boulevard Circle, Walnut Creek, CA, 94595, 800/826-2222. The price is $50.00 plus mailing. I purchased Grammatik from Digital for $75.00 plus mailing and received it in just over two weeks. I had planned to review Grammatik in this article also but this has already gotten too long. One hint though, use the "Profile" utility in Grammatik to list all of the words in a document; then use ^T in WordStar to delete unwanted words until you have a list of words you can read into a dictionary to create an index for a document using the SuperDex program from Spite Software. Works quickly even with 10,000 word documents.

• • • • • • •

Turbo Pascal: An Appreciation

by Herb Bowie

Yes, I know you've probably already read a review or two of Borland International's Turbo Pascal by now. I'll try not to duplicate a lot of the information about it that has already appeared in these pages. What I want to do instead is tell you how Turbo Pascal has changed the life of one Osborne 1 user.

First, a little of my background. I've been a mainframe programmer (yes, one of those!) for almost ten years now, and have grown used to coding in high-level languages such as COBOL. When I finally took the plunge into the world of personal computers a couple of years ago, I did it by purchasing an Osborne 1. SuperCalc and WordStar were great! But having the soul of a programmer, what I was most interested in using were the two BASICs that came with my machine.

Unfortunately, I could never really bring myself to do a lot of programming in BASIC. Yes, I know it's the language of the people and all that, but I'd always been a bit of a snob anyway, and I found it hard to reconcile myself to a language that only allowed numeric labels for subroutines, practically forced you to use GOTO statements, and allowed less than a handful of different data types.

CBASIC was a little more structured than MBASIC, granted, but only at the price of having to use a separate editor, such as WordStar, to create and modify my programs. After going through a few iterations of booting WordStar, editing my program, exiting WordStar, compiling my program, and then waiting for the usual errors to be flagged so that I could go back and start the process over, I was ready to give up on BASIC altogether.

I was one of the lucky ones who got a free copy of dBASE II with his Osborne purchase, so I tried that, and for a while thought that I had found what I was looking for. Several things finally put me off of that product as well. First, I spent long hours developing a complex system only to find it crippled by undocumented dBASE II bugs. And then, it being a high-level interpreted language, it was s - o s - l - o - w! Add to that the fact that, in order for someone else to run a program I had written, they had to shell out $500 for a copy of dBASE II, and I quickly grew disillusioned again.

Finally, like more than a few others, I was entranced by the siren song of JRT Pascal, which was my first exposure to Pascal. I liked the language well enough, but found the JRT implementation hard to live with. Like CBASIC, you had to use a separate editor to create your code. And then I seemed to run into all sorts of mysterious problems, both at compile time and at execution time.

And then, I bought myself a copy of Turbo Pascal, for $49.95. At last, a truly elegant, powerful, high level language for my Osborne!

For those of you who have not yet gotten the message, I'd like to review some of the key features of the language, and compare it to the languages mentioned above (with the exception of JRT Pascal), rating each language in a number of categories. Granted, this is wildly subjective, but still it will give the uninitiated some idea of how these various options stack up against each other.

BUILT-IN EDITOR. Turbo Pascal has a built-in, full-screen editor that works very similarly to WordStar, and can even be customized to emulate other word processing packages. The editor includes such powerful functions as Search, Search and Replace, Block Read, Block Write, and Block Copy and Move. In this category, I give Turbo a 10, dBASE (with its MODIFY command) a 6, MBASIC (with its single line EDIT command) a 3, and CBASIC a zero.

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EASE of COMPILATION and EXECUTION. MBASIC and dBASE both get 10's, since they are full-fledged interpreters, and CBASIC gets a zero, since it requires you to execute one program to compile your source, and another to execute it. Turbo Pascal? Although it is a compiler, it has several neat features that make it almost as easy to use as an interpreter. For small to medium-size programs, Turbo will allow you to compile your program from memory into memory, making it super-fast, and will then allow you to run the program, all without exiting Turbo! And, if Turbo discovers an error during your compilation, it will display a reasonable message, and then throw you right back into its editor, at the very point where the error was discovered. Neat? You bet! I'll give Turbo an 8 here.

SPEED of EXECUTION. This is really subjective, but Turbo seems to live up to its name, especially compared to dBASE. I'll give Turbo a 9, the two BASIC's 7's, and dBASE a 4.

GENERATION OF STAND-ALONE CODE. This is one of the great features of Turbo Pascal. Its compiler generates actual object code that can be run stand-alone, without needing a separate "run-time" package. MBASIC, CBASIC, and dBASE all require you to first execute another program, and then execute yours. Which means that a program you develop will not necessarily run on someone else's computer, unless they also have the same package. Turbo gets a 10, the others zero.

STRUCTURED CODE. Pascal has a full set of structured language features, including CASE, IF-ELSE, DO WHILE, REPEAT, FOR, and BEGIN-END statements, letting the programmer easily code branches and loops in the way best suited to the logic of his application. Here Turbo gets a 10, dBASE an 8, CBASIC a 6, and MBASIC a 4.

MODULAR CODE. If you are writing programs of any size, one of the most important features of a language is its ability to break a program up into smaller pieces, and then break the pieces down further, so that a programmer need only understand a piece at a time, when writing or changing his source, rather than the whole thing. Here Turbo really shines, with its ability to define procedures and functions, which are similar to subroutines in MBASIC (except that functions can be passed to them in Pascal, and you can give them meaningful names, rather than the arbitrary numbers required in BASIC). Turbo gets a 10. CBASIC also has named functions available, but with a few restrictions, so I'll give it an 8. dBASE just allows you to perform another, external command file, so it only gets a 5, and MBASIC, with its numbered subroutines, gets only a 3.

DATA HANDLING. Here dBASE has to be given high marks, since this is its forte. Turbo's innate file handling capabilities are a little better than either BASIC's, since it allows a richer variety of data types, and allows you to define genuine records (fields consisting of other fields), rather than MBASIC's limited FIELD capability. For an extra $49.95, however, you can purchase Turbo Toolbox, which includes source for functions that will allow you to Sort files and build and access indexed files, as in dBASE! Also, Pascal allows you to define your data elements, so that a slip of the finger at the wrong point will not create a new data element, and a possibly perplexing bug. I'll give dBASE a 9, Turbo a 7, and MBASIC and CBASIC both 2's.

Well, that's all of the important categories I could think of. Here's how they all add up.

```
CBASIC       ---------------*
MBASIC       ------------*
dBASE II     ---------*
Turbo Pascal ------*

Editor              10  6  3  0
Compile/Exec         8 10 10  0
Execution Speed      9  4  7  7
Stand-alone Exec    10  0  0  0
Structured Code     10  8  4  6
Modular Code        10  5  3  8
Data Handling        7  9  2  2
                    -- -- -- --
  Totals            64 42 29 23
```

What does all this mean? That Turbo Pascal is a well-rounded language with no real weak points, and that it's a quantum leap ahead of its competition, especially if you've been programming in BASIC up to now. If you have any interest at all in programming, and aren't completely satisfied with whatever language you're using now, then I urge you to order your copy of Turbo Pascal as soon as possible, and see what you've been missing!

* * * * * * *

CB80

by Frederick Klarmeyer

I bought the Digital Research CB-80 program for several reasons. I was mainly interested in CBASIC because this version of BASIC allowed organized, structured programming, but I was very disappointed with the slow speed of the Osborne supplied CBASIC interpreter. I bought the CB-80 CBASIC compiler to increase execution speed and to gain more available memory. Plus, I was impressed by the favorable comments about CB-80 made by Jerry Pournelle in ***BYTE*** magazine. I was able to realize an increase in useable memory as compared to my MBASIC programs, but I didn't get the expected execution speed increase.

To start with: CB80's manual isn't complete, I needed to use a good CBASIC book; I bought the *CBASIC User Guide* by Osborne, Eubanks and McNiff. (I was very pleased with this book, but unfortunately it does not cover the more advanced features of CB-80.) The CB80 manual does do one thing very well — it goes into detail about the differences between CB80 and CBASIC. It also does explain most of the keywords in detail. There are a lot of complex uses that I feel were not adequately covered in the CB80 manual.

I had some problems with "CHAIN"ing and using predefined functions. In particular the "PUBLIC" and "EXTERNAL" statements on functions. To learn to use these utilities I had to write short programs to test for myself how to correctly apply these utilities.

An additional item not covered in the CBASIC book or the CB80 manual (at least I couldn't find it) was the use of CBASIC to determine useless line numbers for elimination, when converting a MBASIC program to CB80. CBASIC gives you colons next to all line numbers that are referenced in the program. The program listing displays the useless labels (line numbers) with a "*" next to it. The way to use this feature is to first, debug most of the program, then do a CBAS2 on the file you want. Toggle both the printer option [F] and the "don't generate intermediate code" option [C]; this saves time. From the printer listing you can then go back into the original file and delete the unwanted line labels.

Some other things to be aware of when translating MBASIC programs are: you can't use the following statements on the same line.

"IF", "DATA", "END", and "DIM"

and the 'If' statements **can't** be like the following:

"IF X>0 THEN IF Y<0 THEN"

but instead you have to use:

"IF X>0 AND Y<0 THEN"

Additionally, if you use "ELSE" with statement references, the "THEN" and "ELSE" part of IF statements require the "GOTO" statement to transfer . . . "THEN GOTO START:" or "ELSE GOTO 120".

Speed? Generally CB80 is slower than MBASIC, but CB80 uses 14 digit accuracy for reals as compared to MBASIC's 6. An MBASIC program using double precision takes almost as long to run but when you use transcendental functions, MBASIC converts the double precision number to single precision while CB80 maintains its 14 digit accuracy.

The programs BENCHM.BAS and BENCHC.BAS are my benchmark routines I used to test the speed of program execution. My goal was to make these programs as similar as possible to get the fairest measurement of the relative execution speed difference.

Here are the results:

Program	Execution Time (seconds)
MBASIC	125
CB-80	197

I included the FRE function in the program to list the amount of free memory and, as expected, the CB-80 program has approximately twice the amount of free memory left over for program use as MBASIC.

My biggest plus for CBASIC is that it allows for structured programming. I like to define each variable as to what it is: string, real or integer. CB80 can even give you error messages, if desired, for variables that weren't defined. By far I consider the multiple-line functions to be the most useful feature of CBASIC. These functions allow parameter passing and can have any number of statements. The variable values are local to the function instead of global, to the main program. You can use a "CALL" statement or an expression to reference a multi-line function. As for line numbers, they are really line labels. Line numbers don't have to be in order. You can use statements as line numbers (labels), such as: "START:" and "GOTO START".

I discovered a problem with CB-80 evaluating zero to the zero power. Any number to the zero power should always be equal to one. This is not the case when a variable whose value is zero is raised to a power by a variable whose value is zero; the result was zero instead of one. For example:

A=0: B=0: PRINT A^B

CB80's result is 0 instead of 1. I wrote to Digital Research about this problem and they confirmed it indeed was a bug and said they were turning it over to their engineering department. I haven't heard anything about what their action was to correct the problem.

Overall I am very pleased with the CB80 Compiler. I use it exclusively when I write large programs.

* * * * * * *

TURBO TOOLBOX

by Michael A. Stoodt

TURBO TOOLBOX from Borland International Inc. Version 1.0. $49.95. 1 disk and manual (about 100 pages). Requires Turbo Pascal version 2.0 or better.

TURBO TOOLBOX is a set of routines and programs for TURBO PASCAL, the inexpensive and effective editor/compiler also published by Borland for $49.95. TOOLBOX provides three features: TURBO Access, an implementation of B-Trees that allow searching a data file based on a key, or sequential access of the file based on the values of that key; TURBO Sort, an implementation of a general sorting routine; and GINST, a generator of installation programs.

TURBO Access

TURBO Access is a set of four files of Pascal source code to be included in your programs (with an Include compiler directive) to provide routines that allow you to manipulate data index files. An index file will let you find any record in the data file easily, based on a "key" string that identifies that record. You can use the index files to search for a specific key, or you can access each record in the order of their keys. A data file can be indexed on several different keys. For example, in a database of customers, you might have indexes on the person's name, the company's name, the state, and/or the phone number. Alternately, one index file could be used to control access to several different data files.

One of the four files, ACCESS.BOX, contains all of the type definitions used by the routines, declarations of the global variables used by the routines, and the functions and procedures that manipulate data files (opening, closing, accessing, adding or deleting records). The space taken up by deleted records is automatically recycled when other records are added. (However, if you delete a large number of records, the file stays the same size; the space on the disk is still allocated

to that file, and is wasted until records are added.) This file is required by each of the other files; the other files only have to be included if you are using the functions in them.

A second file, GETKEY.BOX, contains the source for routines that search through the index file for the desired key, or to get the next key or previous key in ASCII order. All keys are strings. They are compared using the ASCII order, meaning that any lowercase character is greater than any uppercase character -- "Z" comes before "a" — so you will tend to want to use uppercase characters. CBASIC programmers will be glad to hear that string comparisons in TURBO PASCAL behave correctly — strings are compared letter by letter until a difference is found or until one string ends, as opposed to CBASIC's automatic decision that the shorter string is less. The implementation of the index files uses a data structure called B-Trees, which is quite efficient in searching. The routines use a system of maintaining the frequently-used "pages" of index files in memory, to reduce the number of times these pages have to be read from the disk.

Two other files, ADDKEY.BOX and DELKEY.BOX each contain a single routine, that adds or deletes a key from an index file. Because of the complexity of the B-TREE data type, the code for these routines is fairly long and complex. I have discovered that you can put these two routines into one of TURBO PASCAL's overlay files — just precede the Include compiler directive with the word "overlay". The manual does not mention this possibility.

The section of the manual covering Access routines has several problems: a section on the theory of B-TREEs is not clear, and typographical errors are fairly widespread (for example, the ACCESS.BOX file is often referred to as DTAMAN, and GETKEY.BOX as KEYLOC). On the theory of B-TREEs, one should instead look to the references that are mentioned in the manual, especially Donald Knuth's *THE ART OF COMPUTER PROGRAMMING, Vol. 3: SORTING AND SEARCHING.* Despite these problems, I found the routines fairly easy to use. There are six (6) constants which you have to define in your program before including the files. The explanations of these is fairly well done. There are a few typos in the explanations of the routines, but generally, they are accurate and complete enough to tell you what you need to know.

Several examples are given. There are several pages showing pieces of programs to illustrate each of the main functions you would need to perform, and one full program (a customer listing, both on disk and printed in the book) which illustrates a full screen-oriented record entry and search program . The source code for the routines is not commented, but reasonable variable names are used, so determining how they work is not too difficult if you are experienced in handling data structures.

Error handling in these procedures and functions is not done well. If a disk error occurs, the program just prints out an error message (with a TURBO PASCAL I/O error number) and dies. However, the error number is printed in decimal, while the Pascal manual lists the numbers in hexadecimal! Any and all files that were in use when the program died may be corrupt (contain incorrect data) since they are not closed properly, so I find this "error handling" almost unacceptable. Fortunately, you can modify the source code to make the error-handling routine more responsible.

The part of the licensing agreement that applies to both the Access system and the Sort system states that it is OK to distribute compiled programs that use these routines, but distributing the source code for the routines is prohibited.

TURBO Sort

This is a single file, SORT.BOX, that contains routines to sort records into order. It uses the Quicksort algorithm, the fastest sorting algorithm known. If the amount of data to be sorted is too large to fit in memory, disk space is used to hold the excess. It is capable of sorting any type of data because the routines only determine which pieces of data are to be compared, and move them as necessary. You must write the routines that prepare the data and send it to the sort routines, receive the data and output it after it has been sorted, and compare two pieces of data, indicating which is to be put earlier in the order. The TurboSort routine calls these routines, that you write, as necessary.

The sort routine is fairly easy to use, and the routines that the user has to write are (usually) not too difficult. If you have to sort two or more different types of data at different points in your program, the routines get somewhat more complex, since the same routines must be used throughout. You have to use a global variable to tell each routine what kind of data to manipulate. The example programs that are included illustrate what is necessary fairly well.

The manual does not try to explain the sorting method (so it doesn't make the same mistake the first section did). There are a few comments in the source code, but not enough to explain the whole routine. Again, Knuth's *Sorting and Searching* is one of the definitive reference works that you can use to see how it does what it does. I was slightly disappointed in the way this algorithm is implemented. The Quicksort algorithm can be done fairly easily using a recursive routine (one which calls itself to work on a simpler version of it's own parameters); however, the implementation used here is not recursive, using instead a stack to keep track of what has to be done. It works as well, and perhaps faster than a recursive version, but the recursive version would be much simpler to understand and modify (at least in my opinion).

Error handling is reasonable; the main routine, TurboSort, is a function which returns an error code if something goes wrong. This lets you handle the problem as necessary.

GINST Installation Generator

The GINST section of the TOOLBOX is probably the least useful for most users. It allows you to create a COM file and two associated data files that can be used to set up your compiled program for any terminal type, just as the TINST program that comes with the TURBO PASCAL compiler does. GINST does not do any installation by itself; it creates the program which can be used to install another program. (TINST also lets you define the commands for the editor built into the compiler. GINST-generated programs only define the terminal type.)

This is really only useful to people who are selling the programs they develop with TURBO PASCAL. Users creating programs for themselves will rarely use more than one terminal type, and so will not need this. On the other hand, programs written for distribution may have other things that have to be installed as well (such as the customization of commands). This would require another separate installation program that the user would have to write, and it would complicate the installation process for the final end-user because he would have to use two programs, not one.

GINST is simple to use. You just enter the name of the program you want the installer to modify, and enter the name you want to give the installer.

A text file (in WordStar format) that explains the use of the installation program is included. You can edit this and include it in the documentation for your program.

The licensing agreement allows you to distribute the COM file and the data files that GINST produces. It also allows you to include the text file mentioned above, and also to paraphrase the terminal installation section of the TURBO PASCAL manual as necessary to explain the use of the installer.

I have not used this part of the TOOLBOX, so I can't comment on how well it works. It is for a limited audience; I'm not part of that audience (yet).

Summary

The Access and Sort tools are well-thought-out, useful programs. A good programmer could probably develop their equivalent, but the TOOLBOX is inexpensive enough that it is probably easier to purchase it than to re-invent the wheel.

The GINST system probably has limited value. People who will not distribute their programs don't need it, while people who will, may find it to be insufficient for their needs. If it were possible to add your own code to the generated program (or for it to chain to another program automatically), it might be more useful.

Two out of three isn't bad. I recommend TURBO PASCAL and the TURBO TOOLBOX to anyone who is writing large programs, especially programs that manipulate a reasonably large amount of data in a database-like way.

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SYSTEM NOTES

Modifying WordStar 2.26

by Doug Cox

I've been using WordStar for over a year, and I've only recently learned how to change the default, or initial settings for such things as Justification, Help Level, etc. to suit my preferences. The reason is that my grey ***Osborne User's Reference Guide*** only hints at the full capability of INSTALL.COM in customizing WordStar.

I'm going to try to make up for that lack here. To begin, I'll refer you to that User's Reference Guide, page 377, as a refresher on how to use INSTALL.COM. Most of the initial questions asked in the Install program will be answered "no change", until the question is:

```
ARE THE MODIFICATIONS TO WORDSTAR NOW COMPLETE?
 IF THEY ARE ANSWER YES TO THE NEXT QUESTION.
 IF YOU WISH TO MAKE ADDITIONAL PATCHES TO WORDSTAR'S
 USER AREAS, ANSWER NO TO THE NEXT QUESTION.
OK (Y/N): _
```

If you answer N (to make additional patches), then the next paragraph on your screen instructs you on how to make those changes. The problem is that only a few of the labels (or their equivalent hex memory locations) are mentioned in the grey manual (on page 380).

So, here is as big a list of labels and addresses as I could find. They came mostly from John Victor Pezdek's article "WordStar 3.3 Patch Addresses" in the July 84 ***FOGHORN***, and WSPATCH3.ASM (by Mike Schwab and modified by G. Dahl on 1/5/84).

FFh = ON 00h = OFF

Other hex numbers = character or decimal equivalent.

(H stands for hex, which stands for the hexadecimal number system used with 8-bit computers. You don't type the 'h' when you type in a new value or a hex address.)

LABEL	ADDRESS	DEFAULT	EXPLANATION
WID:	0249	50	Screen Field Length (80 columns, decimal) (I changed it to 4F (79 columns) to get 'INSERT ON' to fit on my 52 column screen)
TRMUNI:	029B	00	Ending WordStar (changing this to 02 will tell the computer to read next 2 values)
TRMUNI+1	029C	00	(07 to get bell at end of WS)
TRMUNI+2	029D	00	(1A to clear screen and home cursor) (a bug in my WSPatch3 kept this ending change from working)
DEL1:	02CF	03	Short Delay
DEL2:	02D0	09	Medium Short Delay
DEL3:	02D1	19	Medium Long Delay
DEL4:	02D2	19	Long Delay (I changed this to 0 to get the shortest sign-on message time)
ITHELP:	0360	03	Initial Help Level (0-3)
NITHLF:	0361	FF	Displays ''for Maximum HELP'' message
ITITOG:	0362	FF	Insert Mode
ITDSDR:	0363	FF	Display Directory
INITPF:	0366	08	Line Height (in 1/48's)
INITPF+1	0367	42	Paper Length (lines)
INITPF+2	0368	10	Paper Length (in 1/48's)
INITPF+3	0369	02	(second byte)
INITPF+4	036A	08	Line Height repeated
INITPF+5	036B	03	Top Margin (in lines)
INITPF+6	036C	18	Top Margin (in 1/48's)
INITPF+7	036D	00	(second byte)
INITPF+8	036E	08	Line Height repeated
INITPF+9	036F	02	Heading Margin (in lines)
INITPF+A	0370	10	Heading Margin (in 1/48's)
INITPF+B	0371	00	(second byte)
INITPF+C	0372	08	Line Height repeated
INITPF+D	0373	08	Bottom Margin (in lines)
INITPF+E	0374	40	Bottom Margin (in 1/48's)
INITPF+F	0375	00	(second byte)
INITPF+10	0376	08	Line Height repeated
INITPF+11	0377	02	Footing Margin (in lines)
INITPF+12	0378	10	Footing Margin (in 1/48's)
INITPF+13	0379	00	(second byte)
INITPF+14	037A	08	Line Height repeated
INITPF+15	037B	00	Must be 0 for standard character width
INITPF+16	037C	0C	Standard Character Width (in 1/120's)
INITPF+17	037D	0A	Alternate Character Width (in 1/120's)
INITPF+18	037E	08	Page Offset (in characters)
INITLM:	037F	00	Left Margin
INITRM:	0380	40	Right Margin (I changed this to 33)
INITSR:	0381	03	Superscript Roll (in 1/48's)
INITWF:	0385	FF	Word Wrap (^OW)
INITWF+1	0386	FF	Justification (^OJ)
INITWF+2	0387	FF	Variable Tabs (^OV)
INITWF+3	0388	FF	Soft Hyphen Entry (^OE)
INITWF+4	0389	FF	Hyphen Help (^OH)
INITWF+5	038A	FF	Control Character Display (^OD)
INITWF+6	038B	FF	Ruler Line Display (^OT)
INITWF+7	038C	FF	Dynamic Page Break
INITWF+8	038D	FF	Show Page Break (^OP)

INITWF+9	038E	02	Line Spacing (^OS, 1-9)
DECCHR:	0392	23	Decimal Tab Character (#)
DOTCHR:	0394	2E	DOT Command Character (a period)
DOTSON:	0396	FF	Enable DOT Commands
HZONE:	0399	04	Hyphen Help Stops (increase for fewer stops, decrease for more stops during ^B operation)
PODBLK:	03CA	00	Disk File Output (during Printing)
PODBLK+1	03CB	00	Use Form Feed (during Printing)
PODBLK+2	03CC	00	Suppress Page Formatting (during Printing)
PODBLK+3	03CD	00	Pause between Pages (during Printing)
ITPOP:	03D3	00	Omit Page Numbers (during Printing)
RVELIM:	03D8	2C	Comma delimits data values in MailMerge non-document files
RVQUOT:	03D9	22	Quotes enclose values containing commas, leading blanks, etc. in MailMerge
VARCH1:	03DB	26	'&' to start keyword in MailMerge
VARCH2:	03DC	26	'&' to end keyword in MailMerge

(The following default values mostly consist of more than one hex number, like the one required at INITPF+3. See the manual again and numerous articles in previous ***FOGHORN***s for help with these.)

AUTOBS:	0422	00	Auto Bacnitialization Sequence to Printer
PSINIT+11	06F8	00	Ending Sequence to Printer (it might begin at PSINIT+17, ref. the manual)
SOCHR:	070B	2D	Strikeout Character (^PX)
USCHR:	070C	5F	Underline Character (^PS)

It's a little easier to change individual default values using DDT if you know how to use that utility. It's also easy to change any wording in WordStar using DDT, DDTF, DU, or a program named SUPERZAP.COM that should be added to the FOG library soon (be careful to only replace actual characters with other characters or spaces (20hex) or possibly zero-zero's).

I suggest you look over these sources:

WSPATCH3.ASM
"WordStar 3.3 Patch Addresses" July 84 ***FOGHORN***, pg. 60
May 84 ***FOGHORN***, pg. 13
June 84 ***FOGHORN***, pg. 17
June 84 ***FOGHORN***, pg. 19
July 84 ***FOGHORN***, pg. 9

(I can receive messages on FOG's RCP/M #5)

* * * * * * *

Use BASIC to Setup the Diablo 630

by Arto Kytohonka

The usually cryptic manual (90441-01 rev A), of the Diablo 630 printer, is marvelously clear when defining the ESC Mode Key Assignments. You just type ESC plus something, and the printer will type. Except when I'm trying to command!.

I would like to TYPE text files from Ozzie to paper, but for 258 days I didn't have the slightest idea how to tell the Diablo: (i) where to start (ii) with 1/11 inch steps and (iii) 9/48 inch line feeds (iv) writing 50 lines per page and (v) with the cut sheet feeder, format switch set at 78 lines.

I felt alone with my silly, but real problem. Nobody but nobody seemed to be concerned with those ESC Mode Key Assignments.

Even the extraordinarily helpful ***FOGHORN*** kept quiet about such elementary things. People only write about pins & patches.

Poor me. I took the Cessna and flew to my remote cabin with Ozzie, MBASIC (with manual), ***Portable Companion***s, and ***FOGHORN***s and started to study the art of programming.

And, here is my first program. It's elementary, but it works. It makes the printer TYPE (with the sheet feeder). Right! It **is** a small step for our computing society, but sure a giant leap in the cells of my cortex.

```
10 WIDTH LPRINT 255
20 '
30 ' TYPING WITH DIABLO 630
40 ' (c) Arto Kytohonka 7.1984
50 '
60 ' REMOTE RESET
70 LPRINT CHR$(27)+CHR$(13)+''P''
80 ' ONE SECOND FOR RESET
90 FOR I=1 TO 1700
100 NEXT I
110 INPUT ''DRIVE:FILENAME.EXT '',FILE$
120 GOSUB 270
130 ' NUMBER OF LINES
140 OPEN ''I'',#1,FILE$
150 IF EOF(1) THEN 240
160       LINE INPUT #1,LINES$
170       LPRINT LINES$
180       COUNTER=COUNTER+1
190       IF COUNTER>50 THEN 210 ELSE 150
200 CLOSE #1
210 LPRINT CHR$(12):COUNTER=0:GOTO 150
230 ' TOF AND END
240 LPRINT CHR$(12)
250 SYSTEM
260 ' PAGE LENGTH (WITH HYFEED)
270 LPRINT CHR$(27)+CHR$(12)+CHR$(78);
280 ' SET HORIZONTAL TAB
290 A$=CHR$(27)+CHR$(9)
```

cont. on page 54

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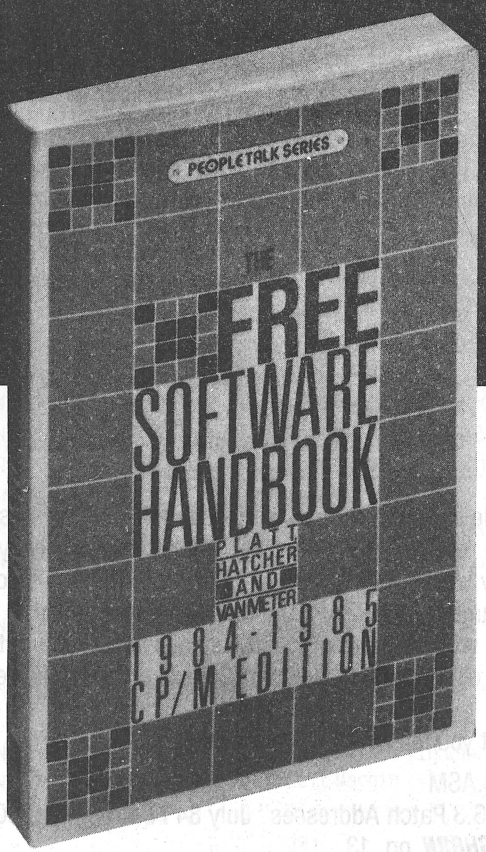

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FOG MEMBER LIBRARY NEWS

Osborne 1 Library Notes
April 1985
by Mike Faith

With apologies to the "GAMES" librarian this months first entry is a game. I was lucky enough to be the recipient because it was written specifically for the Osborne 1. Let me encourage any "games" authors to write their wares specifically for the O-1. I can assure you they will get adequate attention in this section.

-FOG/OS1.002

JOURNEY is a "maze" type game written for the Osborne 1 by Daniel Sunday of Columbia, Maryland. The game was written for and performs best in 52-column mode (although it also runs on the Nuevo 80 column upgrade). The program uses the Osborne graphic character set to map out the levels of an underground city as you search for gold and the ARC! JOURNEY is provided as the .OQJ (squeezed OBJect file . . . "unsqueeze" and rename to .COM) along with JOURNEY.INS (brief instructions), JOURNEY.DQC (squeezed manual in WordStar format) and JOURNEY.SSS (scores of previous games).

In the true spirit of the FOG librarian, JOURNEY has been EXTENSIVELY tested and while I can't report that it is "beatable" I have found that is a lot like "potato chips" — it is really tough to "eat just one". So a word of warning, if you think games are a waste of time — stay away from this one.

OBIOSPT and OS1SET are both contributions from MJ Guerra. OBIOSPT.COM is an easily used BIOS "patcher" for the O-1 (ROM revisions 1.3+, single or double density). The BIOS which results includes a "blinking" cursor, a screen "dump" utility, a shorter bell (a BIG advantage for dBASE II users), a bell signal to tell you whether the ^P you just hit turned the printer on or off and a much more convenient Clear Screen key sequence. The program is self-prompting and easily used. The cost of the handy patcher is the loss of the "foreign" disk parameter tables in your current BIOS which most people don't use anyway.

OS1SET.COM (rename this one to SET.COM as soon as you get it) lets you change most of the parameter settings on your O-1 directly from the keyboard (without using SETUP). Changes which can be made include: Arrow key definitions, Screen width (logical and physical, for owners of the SCREENPAC upgrade), Printer protocols, Baud rate, contents of memory at specified locations.

Both the OS1SET and OSBIOSPT include extensive DQC (squeezed documentation) files.

* * * * * * *

Lobo MAX-80 Library Notes
April 1985
by Joel L. Seber

Another hectic month has come and gone, and, I'm proud to say, three new volumes are being introduced into the FOG/MAX library. All three volumes, 10, 11, and 12, are concerned with Kermit Version 3.1 configured for MAX. As it turns out, there are several other machine definitions in the source code; you non-MAXers may wish to check out these files to see just what is available. The descriptions of the libraries will come in just a moment. Much thanks to Hal Hostetler, who produced the newest modifications. Hal also informs me that a new version of Kermit, something like 4.x, will be sent to me soon. When it is, I will include it in the library as well.

Once again, I want to hear from any and all of you who read this column, whether you are a MAX owner or not. Let me know what YOU want to hear about. Let me know if you have some public-domain software for MAX, either CP/M or LDOS or whatever. My CP/M MAX library is now fully into FOG. I NEED SUBMISSIONS! Please give me some help. I would surely appreciate it.

Here are the summaries of this month's submissions:

-FOG/MAX.010

TOPIC: Kermit Communications Program Version 3.1
Disk #1 of 3:
Executable .COM file and documentation

This disk contains the Kermit communications program (Version 3.1) executable .COM file and documentation (.DOC) configured for the Lobo MAX-80; this disk will allow you to run Kermit all by itself, but the source for this program is located in FOG/MAX.011 and .012 for those of you who are interested or need to make some basic changes in the code. Thanks to Hal Hostetler for the program and the conversion. Please note that many people are responsible for the production of Kermit, which is used as a file-transfer and terminal-emulation package especially by colleges and universities. ***BYTE*** ® magazine recently ran an extensive two-article set on Kermit, how it came to be, etc. (June and July 1984). More can be found in the documentation, and various authors and contributors are credited in the program source and the documentation.

This particular version was written in 8080 assembly language.

-FOG/MAX.011

TOPIC: Kermit Communications Program Version 3.1
Disk #2 of 3:
Kermit Source File — Part 1 of two

This disk contains the first half (roughly) of the Kermit Version 3.1 file transfer and communications program source. Please see /MAX#010.DOC for more complete information.

-FOG/MAX.012

TOPIC: Kermit Communications Program Version 3.1
Disk #3 of 3:
Kermit Source File — Part 2 of two

This disk contains the second half (roughly) of the Kermit Version 3.1 file transfer and communications program source. Please see /MAX#010.DOC for more complete information.

Well, that's all for this month. Enjoy Kermit, and I'll have more MAX news, etc., next month.

* * * * * * *

Televideo Library Notes

April 1985

by Pete Masterson

Last month, the first disk was submitted into the Televideo section of the FOG library. We now have a report that MDM7T803.COM (Modem7) on this disk, configured for the Televideo TS-803/TPC-I, may not work on all machines. This program reportedly was being used with no problem; however, a user with both a TPC-I and a TS-803 (revision A) both with BIOS version 1.5 reports either lock-up or spontaneous reset when attempting to use this version of Modem7. If anyone has Modem7 running on a TPC-I or TS-803A (with BIOS 1.5 or later), we would very much appreciate a copy for the library.

Although a methodical testing program has not yet begun, experimentation with game disks 1 through 10 indicates that almost all the programs run satisfactorily on my TS-802 (Basic games require MBASIC version 5.41 or later). Most programs on game disks 15 and 16 do NOT run properly due to the extensive use of Osborne 1 graphics.

Using some of the utilities, I find that those that do not directly address an Osborne specific function (such as AUTOST.COM) generally work. NSWEEP, on FOG/UTL.031, works on my TS-802 and is particularly useful.

More good news! Uniform, the floppy disk conversion program, is now available for the TS-801 and TS-802 (in addition to the TS-803/TPC-I). Available from MicroSolutions, Software Sales Dept., 125 S. Fourth St., DeKalb, IL 60115; the program is offered for $69.95 plus $3.00 shipping. This program will read, write and format Osborne 1 single sided/double density disks (and many other formats) on your TS-801/TS-802/TS-803/TPC-I (specify your exact model, if you order).

That's all for this month. If you have any Televideo questions/solutions or favorite public domain programs, send them to me care of the FOG office so we can all share them.

* * * * * * *

Game Library Notes

April 1985

by Bob Carter

I finally got a disk off to the FOG library. My learning curve isn't quite what I had hoped for. I still have enough material to make several more disks, and I will keep pressing on if I haven't been replaced by someone more competent in the near future.

-FOG/GAM.018

The disk in the library has several .COM files on it, so you don't have to use MBASIC with it. The included files are:

ALIENS: This is a set of six games very similar to the Space Invaders games where you have to clear the skies of aliens before you can advance to the next level of play.

CRAWL: This is a maze adventure game where you move around, get stuff, fight the bad guys, and eventually (I assume) emerge victorious.

OSCHESS: This looks like a decent game of chess. You have the option of giving the computer the chance to look ahead up to 6 moves. The .DOC with it says Osborne users should not ask to see the board for each move, but I played the game before I read the document, and it played alright with the board displayed for each move for me on this machine (Osborne 1).

BANNER: Prints out a message specified when you run it, or several lines of a message if you call up the program with a /T after the program name (BANNER HELLO will print out HELLO seven letters high, while BANNER /T will display BANNER on the screen, and allow you to enter more than one line from the keyboard).

CRAPS: This is a duplicate of the CRAPS.BAS by Jim Hennesy that is on FOG/GAM.017, except this is a COM file. It runs faster and doesn't need to be loaded with MBASIC. Very good use of the limited Osborne Graphics.

SNOOPY.TXT: This is just a simple graphic of a famous cartoon character done with text. Just use the TYPE SNOOPY.TXT to give the kids something to color.

* * * * * * *

Use BASIC to Setup the Diablo 630
cont. from page 51

```
300 ' SET LEFT MARGIN
310 B$=CHR$(27)+CHR$(57)
320 FOR K=1 TO 5
330 LPRINT A$;
340 NEXT K
350 LPRINT B$;
360 ' SET PITCH
370 LPRINT CHR$(27)+CHR$(31)+CHR$(12);
380 ' SET LINE FEED
390 LPRINT CHR$(27)+CHR$(30)+CHR$(10);
400 RETURN
```

* * * * * * *

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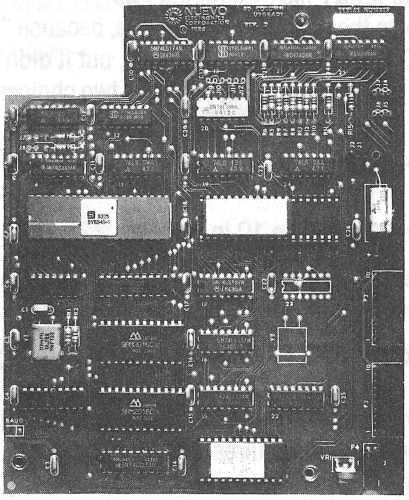

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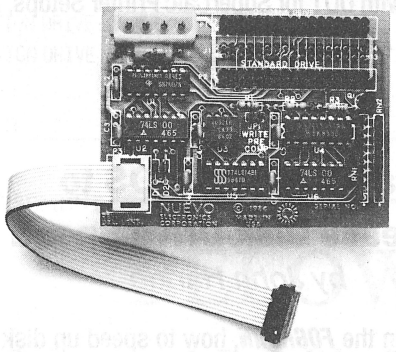

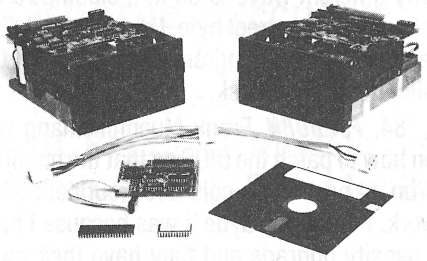

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SC2 and Alternate Print Styles

by Don Hinkel

[I don't know where this article has been. It was dated June 8, 1984. I rec'd it on January 8, 1985. I sure could have used it last summer (presumably when Don sent it) when I was sticking my foot in my mouth over this subject. David]

When reading the latest ***FOGHORN*** (June '84, (pg. 7)), I was quite excited about the letter from the Editor about setting Ozzie up for alternate print formats. Imagine my disappointment when I read that you had to have another computer set up the program because Ozzie wouldn't really send the right code from the keyboard. Then I had a great idea — why not use DDT to insert the correct code in the file! I am not an assembly language programmer (yet), but I can figure some things out with all the tools we Foggies have. Here is my method [for setting the Okidata printer to compressed mode (17 cpi) from SuperCalc 2 (SC2)]:

1 — load SC2

2 — enter these lines into column A just like a regular eXecute file:

1 "/ODA1,S
2 "A⅜
3 "S]]
4 "P

3 — now enter **/GB** to erase the border lines

4 — enter **/SCOMPRESS.CAL,A** to make an optional .CAL file for reference

5 — enter **/ODALL,DC.XQT** to save the file as an eXecute file.

6 — enter **/QY** to leave SC2

7 — while in CP/M enter **B:DDT A:C.XQT** (I keep my DDT file on drive B: for this).

8 — enter **S117**

9 — after 0117 5D type **1D**↵

(Note: If the screen doesn't give these same numbers I've emphasized, don't continue! You'll have to use other commands to find the correct addresses and you will have to know how to use DDT well to carry on.)

10 — after 0118 5D type **20**↵

11 — after 0119 20 type .↵

12 — type **^C** to exit DDT

13 — at the A> prompt, type **SAVE 1 C.XQT**

When you want compressed print in SC2, all you need to do is eXecute the C.XQT file by entering **/XC**.

To go back to the default (10 cpi) mode, because ^X doesn't work from /ODall,SS either (sorry David, but it didn't work on my tan Ozzie and Okidata 82A), you have two choices. You can just turn the printer off and on again to reset it back to the default setting, OR you can make another .XQT file with these changes:

use a **1E** in place of the 1D in step 9;

use a different file name in steps 4,5,7, & 13
(I used D.XQT for my file).

As any experienced user will notice, I used 2]]'s in the start-up file. This will allow you to put in any 2-character control code if you want to use other features of your printer, or you have a printer that requires different codes.

I'll put the eXecute files I have in the FOG library, so if you can't follow my explanation, you can use the files anyway.

[*For another method of solving this problem see* Patching Function Keys with DDT for SuperCalc Printer Setups, *by John Steele, Feb '85, pg 56. David*]

• • • • • • • •

Patch Nuevo BIOS to Increase Disk Drive Speed

by John Harkin

I have read, in the ***FOGHORN***, how to speed up disk access by modifying the disk setting delay time in the BIOS. There are apparently many different ways to do it, including running a program that changes the correct byte. I didn't want to have to do this as I have most of my program disks auto start to the particular application on that disk.

In the May, '84, ***FOGHORN***, Frank Muennmemann wrote a System Note on how to patch the BIOS so that the modification program was run as part of the cold boot routine. I tried this and it didn't work. I thought maybe it was because I have the Nuevo double density upgrade and they have their own version of the BIOS.

Sure enough, a little poking around with DDT showed me that Frank's program was returning to the wrong place in my BIOS. I also realized that Frank was using a delay value that was too short for my Siemans drives. In the October, '84, ***FOGHORN*** Steve Cunningham contributed a note about changing MAKAUTO2 for a different delay time. I combined Frank and Steve's information with the correct addresses for the Nuevo BIOS and came up with the following procedure.

Prepare a disk with DDT.COM and SYSGEN.COM on it (a COPY of your utility disk is fine), and put it in drive A. Then run SYSGEN and DDT (the ↵ means hit ENTER or RETURN):

```
A> sysgen↵
SOURCE DRIVE: a↵
DESTINATION DRIVE: ↵
A> save 59 cpmx.com↵
A> ddt cpmx.com↵
NEXT PC
3C00 0100
-a276e↵
276E mvi a,1↵
2770 sta ef13↵
2773 jmp e469↵
2776 .↵
-a1f80↵
1F80 jmp e8ee↵
1F83 .↵
-^C
A>save 59 cpmx.com↵
A>sysgen↵
SOURCE DRIVE: ↵
DESTINATION DRIVE: a↵
DESTINATION DRIVE ↵
A>
```

In the above procedure, in the line "276E mvi a,1" the value "1" is for Siemans and some MPI drives. If you have MPI drives try a value of 0 instead. If the drives go crazy on a warm boot then switch to a value 1. The stock Osborne value is 2.

Now reset your Osborne and start up as usual. On my computer the drives ran much quieter, without all the old clattering. I'm not sure that I'm used to it yet. The old noise would let me know that something was happening, when I was in the other room waiting for a compile and assemble to get done.

The procedure that Frank suggested for putting the new BIOS on all my program disks worked well for me so I will repeat it here. This procedure allows you to save your function key definitions. Cold boot (reset and hit return) with the disk you want to modify in drive A and the disk from the above modification on drive B. Use SYSGEN to copy from B (source) to A (destination). Then use NEWSETUP and select "M" for the source to get the definitions from memory and put them on A.

[NEWSETUP is a Nuevo improvement to OCC's SETUP.]
[Remember that Lew Christensen (as well as many others) found that Frank Muennmemann's BIOS patch would not work on machines with the OCC, 80 column upgrade (Screen-Pac ®). Frank has supplied a "Version 2" patch in the Feb '85 issue. David]

* * * * * * *

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Tips for Exec Users: Find That Program, or . . . Know Your SCB

by Eric R. Meyer

Often people ask me what features CP/M Plus has that make it more powerful than CP/M 2.2. Here is one of the many that I usually forget to mention. How often do you encounter this kind of problem:

```
B> USQ WHATSIT.AQM
USQ?
B> A:USQ WHATSIT.AQM
WHATSIT.AQM -> WHATSIT.ASM . . .
```

Okay, so USQ.COM was on the A: disk. But having to remember which drive the program is on is one inconvenience that CP/M Plus can relieve. Originally, like CP/M 2.2, it will look for a program only on the default drive. But you can specify a "drive search order" of up to four drives! Dig out your copy of the SETDEF command (you may never have used it!) and issue the command:

SETDEF *,A:,B:

This means: look for a program first on the default drive ("*"), then on the A drive, then B. The result: you never have to worry about drive letters. Now you can say simply:

```
B> USQ WHATSIT.AQM
WHATSIT.AQM -> WHATSIT.ASM . . .
```

There's one awkward side effect: if one of your drives is empty, and the search order causes CP/M Plus to look there, you will get a little BIOS error. No harm done; just type "N" for No, don't keep trying that.

If you find this feature as useful as I do, you will want it set up automatically every time you cold boot. One way to do this is to put the SETDEF command in a submit file called PROFILE.SUB, and put that (along with SUBMIT.COM and SETDEF.COM) on each bootable disk. If you already have a PROFILE.SUB with other commands in it, this may be the way to go. If you don't, it's slow and takes lots of disk space.

Consider the alternative: patch your copy of CPM3.SYS. The drive search order is a series of four bytes in the SCB (system control block), which begins at address 051C in CPM3.SYS. The search order begins at 0568, where you'll see the bytes 00,FF,FF,FF. (Note: These addresses are for a program like EDFILE. If you're using SID, they will be 0100 higher, e.g. 0668.) 00 means default drive, 01 is A:, 02 is B:, etc. FF is no drive. You might change the order to 00,01,02,FF.

Note for Drive C: users: on your Drive C: boot disk only, you will want to include drive C in the search order. This can be done with a command like SETDEF *,A:,B:,C: (or *,C:,A:,B:), or by patching a sequence like 00,01,02,03 into CPM3.SYS at the above address.

More things to do with the SCB: when CP/M Plus has loaded into the Exec's memory, the SCB begins at address F89C in RAM. (Look for your drive search order at F8E8.) The byte at F8D4 controls printer echo; thus an MBASIC program, for example, can make hardcopy of its screen output simply with POKE &HF8D4,1 to turn echo on, and POKE &HF8D4,0 to turn it off. (In CP/M 2.2, this sort of thing was handled by the "IOBYTE" in Page Zero.) You can access the system clock: the date (in number of days since 1/1/78) is a two-byte value at F8F4, and the clock hours, minutes, and seconds (in BCD) are at F8F6-8. For further information on the contents and format of the SCB, see Digital Research's "CP/M Plus Programmer's Guide", Appendix A.

* * * * * * *

Modify CP/M3 to Change the SETDEF Defaults

by Darrell Gehlsen

This is an Executive specific article describing a method of modifying CP/M3 to change the SETDEF defaults.

This will allow all of the options available in the SETDEF menu to be patched into CP/M3 so that they are there when you boot the system.

I have BIOS 1.0 with CCP Patch 02 (CP/M Plus, V3.0 Patch 12,5/1/83) installed.

Begin by using COPYSYS to put system tracks on a freshly formatted disk.

Then put your 'General Utilities' disk in drive A and your 'new' disk in drive B.

At A> type:

SET B:CPM3.SYS[DIR,RW]↵

When your Executive gives you the message that CPM3.SYS has been set to DIR and RW, take your 'General Utilities' disk out and put the 'Advanced Utilities' disk in drive A.

At A> type:

SAVE↵

At A> type:

SID B:CPM3.SYS ↵

```
next msze  pc   end
4700 4700  0100 D7FF
```

At the # type:

D600 ↵

This is the block we are interested in.

From here you can modify your system to do all of the following things.

You can set the search order to automatically search up to four drives for the program you want to load.

No more question mark when you do something like type DIR[FULL ↵ and DIR.COM is on the other drive.

The 'FIRST DRIVE' is the 'DEFAULT' drive.
The 'SECOND DRIVE' is controlled by location 0669
The 'THIRD DRIVE' is controlled by location 066A
The 'FOURTH DRIVE' is controlled by location 066B
The 'TEMP DRIVE ' is controlled by location 066C
The codes to insert at these locations are:

DEFAULT = 00
DRIVE A = 01
DRIVE B = 02
DRIVE C = 03
ETC.

Remember this just sets the search order. The order that I use is:

FIRST DRIVE	= DEFAULT	= 00
SECOND DRIVE	= A:	= 01
THIRD DRIVE	= B:	= 02
FOURTH DRIVE	= OFF	= FF
TEMP DRIVE	= DEFAULT	= 00

When you are done making changes hit **^C** and when the system asks for a filename type:

B:CPM3.SYS ↵

In order to install this search order at the # type:

S669 ↵
0669 FF 01 ↵
066A FF 02 ↵
066B FF ↵
066C 00 .↵

Locations 066B and 066C already have the right data.

Location 0634 controls two things. From here you can set the file search order to .COM files only, .COM file then .SUB file or .SUB file then .COM file. With each of these choices you can also add the choice of 'PROGRAM DISPLAY' on or off.

The codes for this location are:

Data	.COM	.SUB	DISPLAY
00=	only	-----	OFF
03=	only	-----	ON
08=	first	secnd	OFF
0B=	first	secnd	ON
10=	secnd	first	OFF
13=	secnd	first	ON

You might want to experiment using 'SETDEF' to set other file types to be searched and then PEEK ADDRESS 0F8B4H to see what is there. Remember PROGRAM DISPLAY also affects this byte.

Locations 0648h and 0649h control the PAGE MODE.

0649 FF
0649 FF = PAGE MODE OFF

0648 00
0649 00 = PAGE MODE ON

I can't think of any use for it right now but if you set 0654h to 01 the system BOOTs with the PRINTER on (like hitting ^P). Normal byte is 00.

To change any of these bytes at the # type:

S and the location you want to change ↵

When you are done making changes hit **^C** and when the system asks for a filename type:

B:CPM3.SYS

It will ask if you want to delete the old one. Answer **Y** ↵ then it will ask for starting address answer 100, then it will ask for ending address answer 4700.

When you have tested your new system get out your 'GENERAL UTILITIES' disk and with it in drive A and your 'new system' in drive B at the A> type:

SET B:CPM3.SYS[SYS,RO] ↵

You can now use 'COPYSYS' to put this system on other disks.

* * * * * * *

Executive ERAse Patch

by George Peace

How many times have you typed ERA *.BAK and wished you could bypass that (sometimes) annoying confirmation message? Well, here's a quick patch you can apply to your boot disk to get rid of that prompt. You'll only need DU.COM to perform this operation.

```
DU              call up the DU.COM program
LA              log in the A: drive (B is ok, too)
T1              tell DU to select track 1
S13             tell DU to select sector 13 on track 1
CH2E-4A,00 ;change the prompt code to NOP instructions
W               rewrite the updated sector to the diskette
X               exit DU.COM
```

Ok, that's it. Now reset your system and try it out . . .

* * * * * * *

SmartKey II Plus on the Osborne Executive

by Dick Peschke

SMARTKEY II PLUS, once you have the right version for the Executive, is a tremendously useful utility! I am using it with dBASE II, MBASIC, SuperCalc 2, WordStar and in CP/M PLUS. Because SmartKey loads in the top of the TPA and returns you to the system prompt (A>) ready for you to run your main program, and because I want to get started on the computer as quickly and painlessly as possible with the least number of keystrokes I attempted to build a PROFILE.SUB file that would load SmartKey and then run my principle program (WordStar, for example) using SUBMIT.COM and the Exec's autoload feature. I figured I'd be up and running in WordStar with SmartKey safely in place without having to press a single key! UNFORTUNATELY, both SUBMIT.COM and SmartKey use the 0005H location to jump into their respective programs. I could load SmartKey with SUBMIT.COM but nothing else or I could use EXECST.COM to load SmartKey but that meant I would still have to type "WS" from the system prompt. That's no big deal but there had to be a better way!

What follows is a step-by-step procedure that allows me to load SmartKey and automatically run my principle program without the requirement of any keystrokes by me. I will use WordStar as my sample main program, but the procedure works on any other program as well (just change the names as appropriate).

First, load SmartKey and create a Definition file for WordStar, per the instructions in the SmartKey user's manual, and then save that file as a ".DEF" file to your WordStar disk using FIXKEY (or you can use FIXKEY to create an empty ".DEF" file just to get you started). I created a file called WS.DEF.

Next, modify EXECST.COM for the "autorun" sequence. The steps listed below will load SmartKey and its WordStar definition file (WS.DEF) and then it will run WordStar (WS.COM). Using your system master disk follow these steps. **(Your inputs are in bold print.)**

a. A> **SAVE** ↵

b. A> **SID EXECST.COM** ↵

```
CP/M 3 SID - Version 3.0
NEXT  MSZE   PC    END
```

(Please note the PC and MSZE values as you will use them later. The numbers that appear here are what I got.)

```
0B00  0B00  0100  CAFF
#S256 ↵
0256 xx "SMARTKEY WS WS ↵
0264 xx 0 ↵
0265 xx . ↵
```

(SMARTKEY = SMARTKEY.COM
1st WS = WS.DEF file
2nd WS = WS.COM)

```
#S255 ↵
0255 xx 0F ↵   (Count the number of letters &
0256 xx . ↵    Spaces in the string you entered at 0256H and
               add 1 — in this case, 14 + 1 = 15. Convert
               this value to Hexadecimal - 15d = 0F)
#^C
CP/M SAVE - version 3.0
Enter file (type RETURN to exit): EXECST.COM ↵
Delete EXECST.COM? Y
beginning hex address 0100 ↵ (PC value you saved earlier)
ending hex address 0B00 ↵ (MSZ value you saved earlier)
A>
```

That's it! You now have an EXECST.COM file that will load SmartKey, its WordStar Definition File, and will Run WordStar for you when you initially boot your system (or whenever you press reset).

I have found this little routine to be a very nice way to load SmartKey and my favorite program. Hope it works well for you!

* * * * * * *

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LOBO MAX

Tidbits from the MAX World

by Joel L. Seber

First, I want to say some things about HyperCross ®, the VERY nice diskette reader-writer-formatter. It has gone into version 2.0 and it is SUPER! Last month I outlined most of the new features that it supports so I will just point out that it does an excellent job.

I am still waiting on the additional format package which brings the total number of formats supported to 120 (!!); more on that when I get it. I am very pleased with the fact that it supports 8" drives better, and my 80 track DSDD Teac ® drives respond favorably also.

There is one minor bug, but the author assures me that it will be repaired soon. Considering the amount of support and time that Mike Gingell has given me, I am inclined to believe him. Once again I urge all MAXers and also any TRS-80 I/III/IV people out there to get in touch with him; this is one program you will USE!! The address and phone number is:

Hypersoft
P.O. Box 51155
Raleigh, NC 27609
(919) 847-4779 from 6-11 EST only, please.

By the way, yes, I am pushing this program very heavily, but NO, I don't get a penny out of it. I just feel that a huge chunk of my job as a FOG librarian is to inform you as to what is available, what is good and bad, etc. Other members should share their experiences as well.

On to another package. This one is called XTERM, and it's in the public domain. I have just received it from Ronnie Bell, the SYSOP of a MAX-80 bulletin board in Virginia. The number is (703) 979-9250 and it has the same parameters as the FOG boards.

XTERM was written by Bill Andrus, and is an extra smart terminal emulator for LDOS (at least on MAX). I think that anyone who works in LDOS would enjoy the sheer power that this program affords. How would you like to be able to upload or download easily from nearly all RBBS/RCP/M systems in existence? This program can do it, and has a LOT of nice features. It is very easy to use and has documentation.

One reason that I have not entered it into the FOG library as yet is: how do I put it out for everyone to get at? FOG disks are usually submitted by librarians in Osborne-1 SSSD format. I CAN do it that way, as I have Hypercross; the problem is, how can YOU get to it once you get the disk, assuming you get your FOG libraries on diskettes? If you can download programs from FOG bulletin boards through LDOS, that would work; XTERM supports XMODEM protocol.

Again, however, not everyone could get to the program equally. How about it, folks? I would really like some input from you LDOS users (I'm one, too) as to how to obtain this program. Please address any comments to my attention in care of the FOG office or leave a message to me on FOG boards 1, 3, or 6, or on my bulletin board, the Cookeville RIBBS, (615) 528-5039.

Another major topic: Most of you registered MAX owners should already have gotten your MaxLetter 11. I have. It seems that the users are trying to regroup and form a national club again. I have not heard anything from MAXIMUL in some time, so I assume that it is no longer in existence (in it's original form).

I am going to send a letter along with my questionnaire and outline what FOG and I have been doing for MAX. I still intend to be a clearinghouse for MAX software; I sincerely hope that I can do the same for the reforming MAX users group. More on this as I know more.

As to the status of Lobo Systems, the MaxLetter assures us that they are still in business, will still sell and service MAXes, and maybe even come out with some new products for MAX. I sincerely hope that this is the case.

The MAX-80 is a wonderful little machine and deserves all the praise that I have given it. MAX people, let's get together and show Lobo that we are, in fact, still out there and maybe they can support us better.

By the way, I have heard rumors of ZCPR3 being available for MAX on CompuServe ®. Can anyone give me some more info. on that? I do not have direct access to CompuServe right now, and if someone has downloaded that package, I would like to include it in the MAX library, as well as use it myself; I use ZCPR2 myself, and find it really helps me use the system easier.

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To whomever can help:

I'm looking for some children's educational programs (pre-school or early grades) for my Ozzie 1 — DD. Does anyone know/have some? Good graphics is a must.

Also, does anyone know if there is an accredited university offering a correspondence course in PASCAL?

Judy Ann Jones
411 Sidney Street
Madison, WI 53703

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John Gaudio is an electrical engineer holding two U.S. Patents on computer systems. He's been a consultant to Osborne Computer Corporation and has written several articles for their magazine, The Portable Companion. He continues to write regularly for the newsletters of the First Osborne Group and the Denver Osborne Group, and has spent the last two years helping people to get more from their Osborne Computers. Survivor's Life Line is a Trademark of J. Gaudio Company.

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FOG MEMBER MERCHANDISE

With the availablity of Media Master from DG/Systems, most members do not need the more expensive UNIFORM. While the two programs are similar in purpose, there are some important differences. Media Master will work on the Executive, UNIFORM will not. UNIFORM is $40.00 more expensive than Media Master.

If you are interested primarily in transferring data files from a non-CP/M 2.2 formatted disk, there is no difference in the method used by both programs. ONLY if you own a Morrow, KayPro, or double density Osborne 1 and want to edit a large volume of files on a disk formatted by another CP/M 2.2 system should you consider purchasing UNIFORM. This is because UNIFORM will allow your B: drive to emulate the drive of the other system. You can then use WordStar, NSWEEP, PIP, etc. on the foreign disk.

FOG will continue to carry UNIFORM because most dealers will not carry this software. When ordering UNIFORM, please be sure to indicate which format you have since UNIFORM is very machine dependant. UNIFORM is currently available for Osborne 1 (double density only), KayPro II, and Morrow MD2 and MD3. You should order Media Master directly from DG/Systems.

SmartKey2 and SmartPrint2 are are now available for both CP/M 2.2 and CP/M 3.0 (CP/M+). If you have previously purchased these programs for your Executive, please return the complete package for a full refund or an exchange. Be sure to specify which version you want.

The book ***Pocket Guide to WordStar*** by Tony Bove and Cheryl Rhodes is a must for anyone looking for assistance in using WordStar. The price is $7.25.

One of the most popular items in the FOG inventory is the T-shirts with the FOG logo. These T-shirts are soft Osborne blue in color and are Hanes 100% cotton. They are cut large to allow for shrinkage. Sizes available are small (34-36), medium (38-40), large (42-44), and X-large (46-48). The price is $8.00 each (two for $15.00) for members and $10.00 each for non-members. Add $1.00 for shipping.

Prices on the merchandise are as follows:

SmartKey2 only	**$89.95**
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	2 for $15.00
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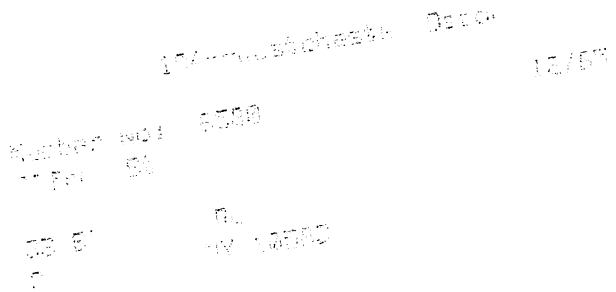

The **F**irst **O**sborne **G**roup (**FOG**) has been formed as a User's Group for persons using or interested in portable computers and/or the CP/M disk operating system with related software. In December of 1984, there were over 15,000 members from around the world. Most attend meetings at over 300 locations.

Computer systems owned or used by members include the Osborne 1 (single and double density), the Osborne Executive, all models of the Morrow MicroDecision, the Zorba, all models of the KayPro, the Televideo, the Micromate, the Lobo Max, the Osborne Vixen, and many others. Special interest groups being organized to augment a network of local group meetings include dBASE II, ham radio, Personal Pearl, etc.

Dues in FOG are $24.00 per year. This entitles each member to a copy of the ***FOGHORN*** each month as well as access to the disk library and the RBBS-RCP/M network systems. Local group meetings are open to the public without charge although access to the disk library is restricted to the membership. The FOG library contains only software copyrighted for the public domain. Piracy (the copying of proprietary software) is strongly condemned.

In the United States, the ***FOGHORN*** is normally mailed by non-profit bulk mail. (FOG is a corporation in the state of California and has obtained its non-profit, tax exempt status from both the state and federal governments.) For those who live out of the U.S., or those who prefer first class delivery of their ***FOGHORN***, additional postage must be added to the annual dues. See the chart on page 2 for details. Page 2 also contains most membership information.

CUT HERE

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MEMBER OF WHICH LOCAL GROUP? _____

COMPUTER TYPE? _____

MODEM TYPE? _____ PRINTER TYPE? _____

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Be sure to include any required postage surcharge.
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